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Open File Report 6118

Savant Lake Area High Density Regional Lake Sediment and Water Geochemical Survey, Northwestern Ontario

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ONTARIO GEOLOGICAL SURVEY

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Savant Lake Area High Density Regional Lake Sediment and Water Geochemical Survey, Northwestern Ontario

by

D.F. Russell

2003

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Abstract

The Ontario Geological Survey carried out a helicopter-supported high density lake sediment and water survey of the Savant Lake area of northwestern Ontario during the summer of 2000. The survey area is located approximately 300 km north-northwest of Thunder Bay, and covers an irregularly shaped area represented on National Topographic System (NTS) 1:50 000 scale map sheets 52J/6, 52J/7, 52J/8, 52J/9 and 52J/10. Lake sediment and/or water samples were collected from a total of 1154 lake sites and analyzed for a suite of over 50 elements. Preliminary interpretation of these analyses indicates 16 geochemically anomalous areas, including anomalous results for Ag, Au, Cd, Co, Cr, Cu, Mo, Ni, Pb, PGEs and Zn. Digital data for this report is available separately as Miscellaneous Release Data (MRD)-122.

Savant Lake Area High Density Regional Lake Sediment and Water Geochemical Survey, Northwestern Ontario

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Ontario Geological Survey
Open File Report 6118
2003

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Introduction

Fieldwork for a high-density lake sediment and water geochemical survey for the Savant Lake area was carried out from July 17 to August 5, 2000. The survey area is located approximately 300 km north-northwest of Thunder Bay and covers portions of the area defined by National Topographic System (NTS) 1:50 000 scale map sheets 52J/6, 52J/7, 52J/8, 52J/9 and 52J/10 (Figure 1). Lake sediment and/or water samples were collected at 1154 sites, giving an average density of 1 sample per 2.2 km^2.

The Savant Lake area was selected for this type of survey for reasons that include client interest, the high mineral potential of the area and the fact that minimal geochemical exploration data exists for the region. The survey area is bounded on the north, south and west sides by high-density lake sediment geochemical surveys previously conducted by the Ontario Geological Survey. The current survey will provide new regional geochemical data for the Savant Lake greenstone belt at a relatively high resolution.

Regional Setting

BEDROCK GEOLOGY

The most recent bedrock mapping for the study area was completed by Trowell (1986) with other parts of the Savant Lake area being mapped by Bond (1977, 1979, 1980). Trowell (1981) mapped the Beckington Lake area and Trusler (1982) mapped the Farrington Lake area in the western part of the survey area. More recent work has focussed on a re-examination of the bedrock structure and stratigraphy of the region in order to determine how the deformation events have affected volcanogenic massive sulphide (VMS) and precious metal mineralization (Sanborn-Barrie 1990, 2000).

The Savant Lake greenstone belt (Figure 2) strikes east-northeast for about 80 km from the Marchington River in the west to the Flindt River in the east. It varies considerably in width, from 2 km in the west to over 25 km in the east. The area is divided into 3 primary bedrock units: the Jutten Group; the Handy Lake Group; and the Savant Group. The Kashaweogama Lake shear zone extends westerly through the area and cuts all of the above units.

Sanborn-Barrie (2000) provides the most recent description of the geology of the greenstone belt. The lowermost Jutten Group occurs in the northern and eastern parts of the study area. This group consists of a basal, clastic sedimentary sequence of quartzose and feldspathic conglomerate and wacke with clasts of granitic and ultramafic provenance. The group's main unit consists of massive tholeiitic mafic flows with minor flow-top breccia, oxide-facies ironstone and chert-magnetite units. Near the northeastern arm of Savant Lake and in the northwest near Armit, Kashaweogama and Dickson lakes, minor ultramafic intrusive rocks can be found. Intermediate to felsic tuff and flow units can be found locally within this group. In the southern and western parts of the survey area, the Jutten group grades into the overlying Handy Lake Group, a sequence of high-Mg tholeiite and porphyry flows, felsic and intermediate flows and pyroclastic rocks, volcanogenic metasedimentary rocks and feldspar/quartz-feldspar porphyritic sills. Unconformably overlying both the Jutten and Handy Lake groups is the Savant Group. Occupying much of the central part of the study area, this group consists mainly of late- to post-volcanic clastic rocks with minor felsic to intermediate metavolcanic rocks. There are 3 distinct formations within this group. The lowermost Narrows Formation is a polymictic clast- to matrix-supported conglomerate (Trowell 1986) of variable clast composition. The Narrows Formation grades into the West Shore Formation, which is composed of medium- to fine-grained feldspathic wacke, fine

sand to silty lithic wacke and thinly bedded to thickly laminated magnetite-chert ironstone. The uppermost unit of the Savant group is the Whimbrel Lake Formation, comprising felsic to intermediate pyroclastic rocks with minor intermediate to mafic porphyritic and amygdaloidal flows. This unit conformably overlies the West Shore Formation.

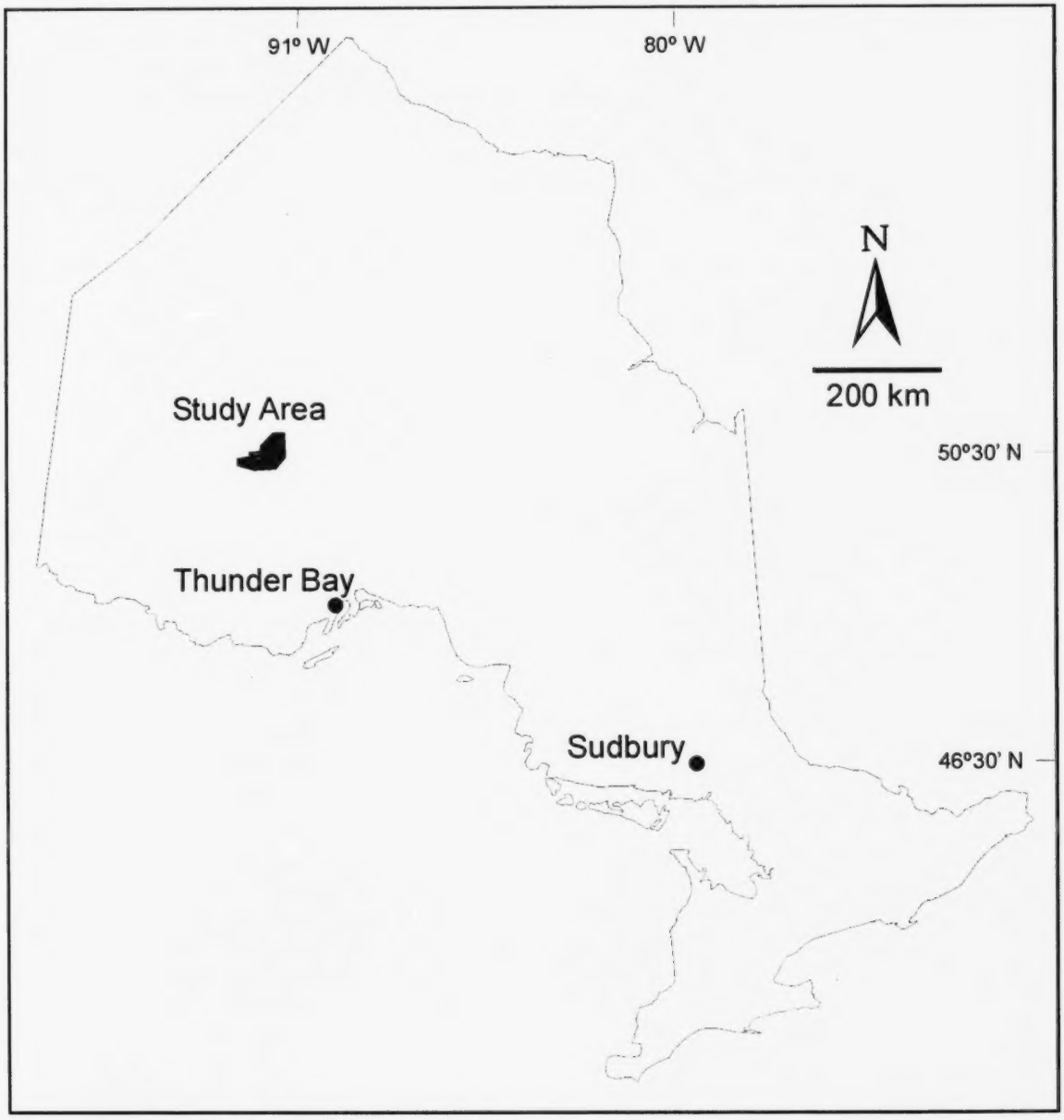

Figure 1. Location map of the Savant Lake study area.

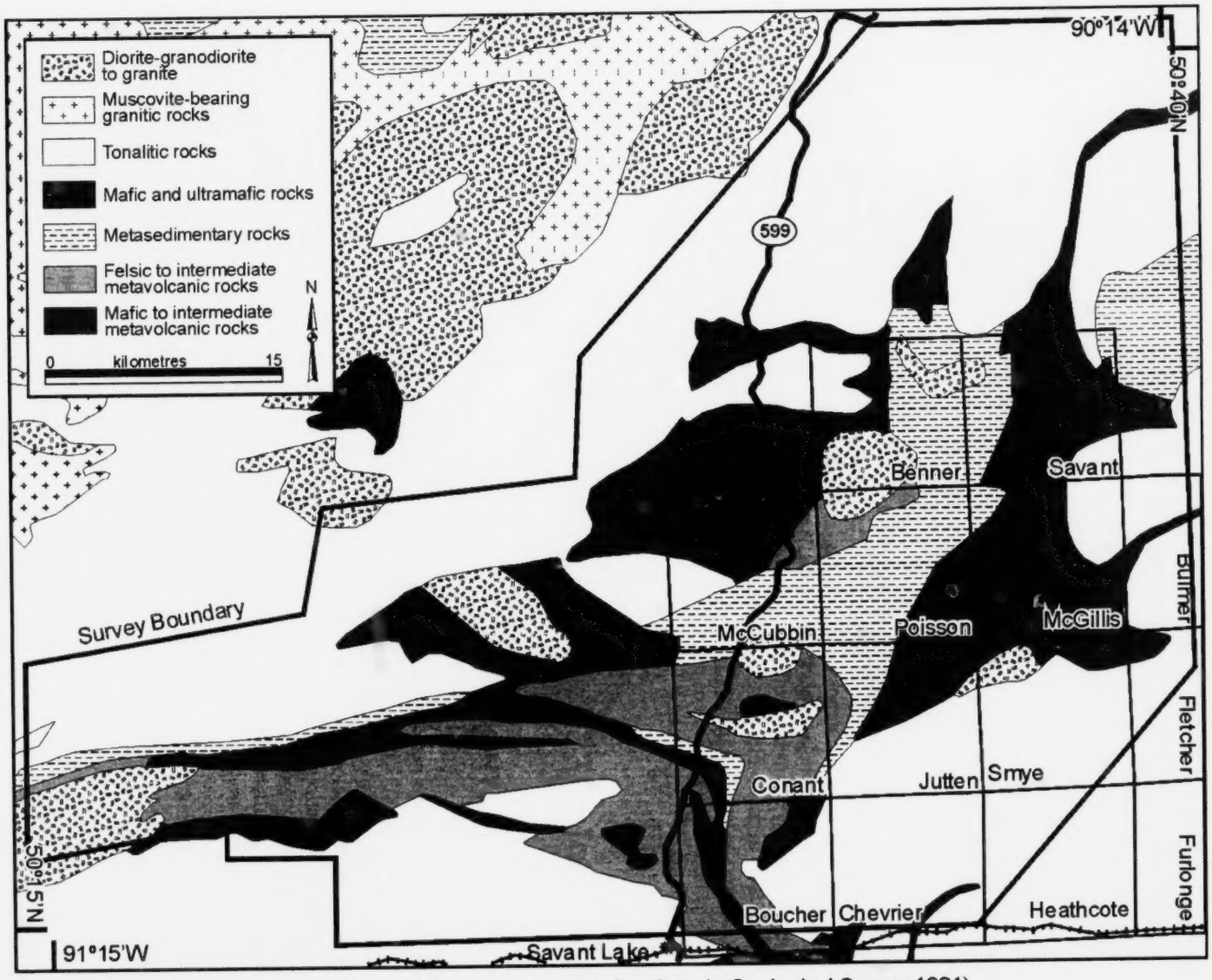

Figure 2. Bedrock geology of the Savant Lake survey area (after Ontario Geological Survey 1991).

Exploration efforts in the area resulted in the discovery of gold in 1926 and 1940 in the area of Savant Lake (Bond 1977) and the Sabin base metal prospect (Janes et al. 1990). In 1968, the Zn-Cu-Ag-Pb Mattabi Mine was discovered on Sturgeon Lake, south of the present survey area. This discovery led to a dramatic increase in exploration for base metals in the late 1960s and 1970s, particularly within the Handy Lake group which shows similarities with the South Sturgeon Lake volcanics (Trowell et al. 1980). There has not been any mineral production to date within the survey area.

PHYSIOGRAPHY AND SURFICIAL GEOLOGY

The Savant Lake area is characterised by gentle topography with local relief rarely exceeding 75 m. Engineering geology terrain maps were produced for the area at a scale of 1:100 000 (Gorman 1989a, 1989b; VanDine 1989a, 1989b). These maps indicate that the area is covered by discontinuous glacial drift consisting of sandy till deposits, sand- and gravel-rich eskers, glaciofluvial outwash and small organic peat deposits. The area between Savant, Armit and Miniss lakes is mainly exposed bedrock or bedrock covered by a thin layer of sandy till. Northeast of this area, ground cover is mostly till, with localized esker deposits and exposed bedrock. To the southwest, the amount of esker material increases while exposed bedrock decreases. The eskers vary in size, reaching up to 25 km in length and 2 km in width. The regional orientation of these glaciofluvial systems is to the northeast, corresponding with the direction of glacier margin retreat in the area. A generalized map of the surficial geology is shown in Figure 3.

Methodology

SAMPLING METHODS

Sediment sampling was performed by a 2-person team from a float-equipped Bell 206B helicopter. Overall, an average of 17 lakes were sampled for each hour of helicopter time. The samples were collected using a gravity corer designed by the Ontario Geological Survey (OGS). Samples were taken from depths >20 cm below the sediment/water interface (SWI) in order to minimise or avoid anthropogenic influences and SWI effects. These deeper sediments more accurately reflect the natural geochemical inputs which may be traced back to local bedrock geology (Dyer 1998). The samples were extruded from the collection tube into breathable fabric bags and then placed in a sealable plastic bag until the end of the sampling run.

Lake water samples were taken simultaneously with the sediment samples. On lakes <3 m deep, water samples were collected at a depth of 0.5 m below the water surface while on lakes deeper than 3 m samples were collected at a depth of 2 m. A semi-automated water sampling apparatus, developed by the OGS, was used for the collection of samples. The apparatus consists of a submersible pump, a water quality meter (YSI) for measurement of parameters such as pH, temperature and conductivity, a sample bottle tray and a variety of hoses and valves. Water from the lake was pumped through the system in order to purge it prior to the collection of a sample and the recording of water quality data. The water samples were kept cool immediately following collection and were filtered and acidified upon return to camp.

Sample site locations were recorded using a GPS receiver mounted in the cockpit of the helicopter. A customised database application operating from a pen-based computer was used to record the sediment

sample information and descriptions, while the water quality data was recorded using the YSI data logger and then transferred to the computer system at the end of each sampling run.

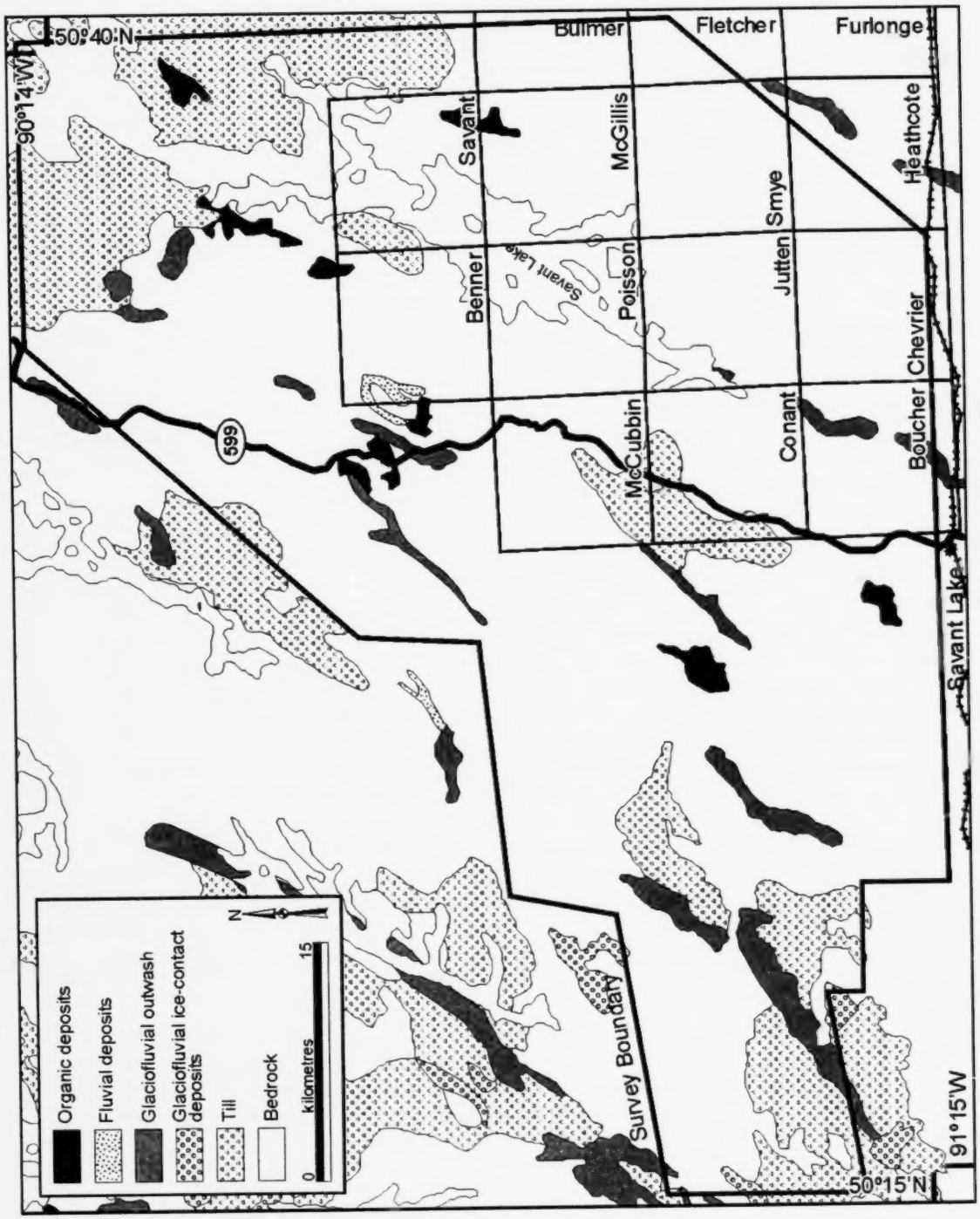

Figure 3. Surficial geology of the Savant Lake survey area (after Barnett et al. 1991).

SAMPLE PREPARATION AND ANALYTICAL METHODS

While in the field, lake sediment samples were partially air dried while still in their porous collection bags. Upon arrival at the laboratory, the samples were fully air dried, then partially pulverised in a ceramic ring mill and subsequently sieved to obtain the -80 mesh (<177μm) size fraction. Laboratory analysis included nitric-aqua regia digestion of 1 g of sample pulp followed by inductively coupled plasma-mass spectrometry (ICP-MS) and inductively coupled plasma-optical emission spectrometry (ICP-OES) for the determination of approximately 50 major, minor and trace elements. Nitric-aqua regia digestion attacks all sample matrix constituents except for silicate minerals, and therefore is considered a non-selective, relatively strong partial extractant (Dyer 1998). Approximately 15 g of sample pulp was pressed into briquettes prior to analysis by instrumental neutron activation analysis (INAA) for Au, As and a suite of 25 other elements. Sufficient pulp was available to analyze 617 samples by fire assay with an ICP-MS finish to determine Au, Pt and Pd. Loss on ignition (LOI) is determined at 500°C using an automated gravimetric technique. Quality control was monitored through the use of sample pulp duplicates and certified reference materials inserted into the sample sequence.

Water samples were passed through 0.45 μm syringe filters and acidified to ~1% ultrapure nitric acid within 24 hours of collection. Analysis of water included direct aspiration inductively coupled plasma-mass spectrometry (ICP-MS) to determine approximately 50 elements including major cation and anion species. Quality of the analyses was monitored through the use of sample duplicates, certified reference standard SLRS-4 and blanks (distilled water).

Quality Control (QC) Results

Every 10th sediment sample submitted was a quality control (QC) sample. Each QC sediment sample consisted of either analytical (pulp) duplicates, certified reference standards (CRS) or an internal (OGS collected) bulk standard. Analytical pulp duplicates were prepared by halving 1 in 40 of the dried sample pulps and inserting them into the sample sequence. CANMET certified reference standards (LKSD-1 and LKSD-4, Lynch 1990) and an OGS internal standard were also inserted as dried pulps between the sample preparation and analysis stages. Every 20th sample was either a CRS or an OGS internal standard. These 3 standards were inserted alternately so that each was repeated every 60th sample.

Analytical precision for each element was determined by plotting duplicate data on an X-Y chart and determining the variation of 95% of the data from a 1:1 ratio. Accuracy was determined by plotting the sequential values returned for certified reference standards inserted in the batch against a vertical scale of concentration and comparing this with the "provisional values" (Lynch 1990) for the standards. The mean and standard deviation of values returned for each standard were also compared with the provisional values.

Table 1 contains a summary of the elements analyzed from lake sediments, including some basic statistics of the geochemical datasets, and quality control data such as estimates of precision for each element and coefficients of variation for the certified reference materials. A complete listing of all data used to prepare these tables is contained in Miscellaneous Release – Data 122 (MRD-122), published separately from this report.

Table 1. Summary of elements including estimates of precision, lake sediment data set.

Element	Analytical Method[1]	Units	MDL[2]	Median[3]	Range[3]		Estimated Precision[4]	LKSD-1; n = 22			LKSD-4; n = 22		
					Min	Max		Cert. Value	Mean Value	CV[5] (%)	Cert. Value	Mean Value	CV[5] (%)
Ag	ICP-MS	ppm	0.02	0.09	<0.02	0.67	0.08	0.6	0.56	16.92	0.2	0.19	43.52
Al	ICP-OES	ppm	30	7912	1200	35414	1904	41300	3920	5.32	31200	11761	4.83
As	INAA	ppm	1	3.00	<1	110.00	2	40	39	2.53	16	16	4.02
Au	FA/ICP-MS	ppb	0.90	<0.90	<0.90	37.44	2.2	5	3.71	48.67	2	1.49	63.60
Au	INAA	ppb	1	<1	<1	34.00	4	5	5	81.08	2	3	56.51
Ba	ICP-OES	ppm	3	77	11	751	8	430	90	2.99	330	136	2.66
Be	ICP-MS	ppm	0.10	0.22	<0.10	1.64	0.12	—	0.11	83.57	1	0.38	32.65
Br	INAA	ppm	1	37	3	110	9	11	11	6.29	49	48	3.75
Ca	ICP-OES	ppm	15	9724	1160	240901	606	77200	70509	3.27	12900	9475	2.51
Cd	ICP-MS	ppm	0.05	0.56	<0.05	2.47	0.07	1.2	1.63	4.29	1.9	2.12	3.88
Ce	ICP-MS	ppm	0.03	37.57	2.14	224.43	7.89	27	17.43	7.48	48	39.45	6.04
Co	ICP-MS	ppm	0.05	5.06	0.70	48.44	1.54	9	7.53	6.93	11	8.72	5.77
Cr	ICP-OES	ppm	4	18	<4	85	4	12	13	10.30	21	20	5.79
Cs	ICP-MS	ppm	0.01	0.71	0.10	3.34	0.14	1.5	0.52	5.22	1.7	1.08	5.80
Cu	ICP-OES	ppm	5	27	5	273	4	44	42.14	4.93	30	30.41	4.83
Dy	ICP-MS	ppm	0.05	1.47	0.17	5.89	0.33	3.4	1.71	5.91	3.7	2.94	4.41
Er	ICP-MS	ppm	0.01	0.72	0.09	2.47	0.14	—	0.96	7.60	—	1.67	5.39
Eu	ICP-MS	ppm	0.05	0.56	0.06	2.54	0.13	0.9	0.47	7.29	1.1	0.88	4.68
Fe	ICP-OES	ppm	5	8681.50	918	228938	1639	18000	19176	2.49	27000	26598	2.51
Ga	ICP-MS	ppm	1.00	1.81	<1.00	5.64	2.41	—	1.97	16.13	—	3.81	17.79
Gd	ICP-MS	ppm	0.05	2.94	0.24	14.76	3.25	—	2.55	16.67	—	4.45	17.28
Hf	ICP-MS	ppm	0.05	<0.05	<0.05	0.43	0.02	3.6	0.03	41.96	2.8	0.03	35.47
Ho	ICP-MS	ppm	0.01	0.26	0.03	0.94	0.07	—	0.32	9.00	—	0.55	6.81
K	ICP-OES	ppm	100	320.50	<100	1777	124	9100	384	6.80	6600	843	8.47
La	ICP-MS	ppm	1.00	21.49	<1.00	350.00	6.46	16	10.42	7.28	26	21.36	3.40
Li	ICP-MS	ppm	0.50	3.66	<0.50	21.92	2.96	7	4.06	8.56	12	8.93	6.74
Lu	ICP-MS	ppm	0.005	0.09	<0.00	0.34	0.04	0.4	0.12	10.15	0.5	0.23	9.18
Mg	ICP-OES	ppm	20	1532	229	23607	359	10300	6417	2.95	5400	3918	4.23
Mn	ICP-OES	ppm	1	139	10	9540	39	460	417	2.39	430	411	2.25
Mo	ICP-MS	ppm	0.10	1.15	0.21	25.90	0.25	12	10.13	4.22	2	1.77	5.22
Na	ICP-OES	ppm	10	55	16	712	56	14800	264	9.04	5200	214	39.37
Nb	ICP-MS	ppm	0.05	0.67	0.07	2.76	0.36	7	0.72	20.26	9	1.23	10.60
Nd	ICP-MS	ppm	0.08	19.00	1.04	97.26	2.65	16	12.00	5.29	25	22.31	3.83
Ni	ICP-MS	ppm	0.50	18.39	4.37	53.40	2.22	11	14.55	7.11	32	31.93	4.92
P	ICP-OES	ppm	50	743.50	202	4303	140	900	768	4.26	—	1353	3.46
Pb	ICP-MS	ppm[6]	0.05	3.30	0.66	25.62	0.45	84	90.78	10.56	93	103.92	11.20
Pd	FA/ICP-MS	ppb	0.90	<0.90	<0.90	18.04	1.8	—	0.66	94.07	—	0.54	36.76
Pr	ICP-MS	ppm	0.05	4.90	0.27	25.59	0.3	—	2.79	8.86	—	5.48	5.80
Pt	FA/ICP-MS	ppb	0.50	<0.50	<0.50	16.19	0.8	—	0.47	140.05	—	0.46	54.09
Rb	ICP-MS	ppm	0.05	4.36	0.83	27.07	2.51	24	3.36	6.71	28	9.52	5.68
S	ICP-OES	ppm	1	3388	458	48741	285	15700	16139	2.98	9900	9902	3.12
Sb	ICP-MS	ppm	0.05	0.08	<0.05	0.65	0.02	1.2	0.64	10.22	1.5	1.23	5.50
Sc	ICP-MS	ppm	0.10	1.40	0.12	6.25	0.65	9	2.42	12.22	7	3.86	8.13
Se	INAA	ppm	2	<2	<2	10	3	4	1	26.97	—	2	55.51
Sm	ICP-MS	ppm	0.05	3.08	0.21	14.37	0.56	4	2.50	6.10	5	4.19	4.21
Sr	ICP-OES	ppm	1	18	5	104	3	250	61	2.68	110	39	3.28
Tb	ICP-MS	ppm	0.05	0.29	<0.05	1.21	0.16	0.6	0.30	12.21	1.2	0.51	10.12
Th	ICP-MS	ppm	0.05	0.78	<0.05	8.93	0.65	2.2	1.29	9.06	5.1	1.84	6.69
Ti	ICP-OES	ppm	3	132	26	897	128	3010	301	10.80	2270	418	9.39
Tl	ICP-MS	ppm	0.05	0.13	<0.05	0.90	0.03	—	0.23	6.65	—	0.45	5.42
Tm	ICP-MS	ppm	0.005	0.09	0.01	0.33	0.03	—	0.12	10.58	—	0.22	7.98
U	ICP-MS	ppm	0.05	1.74	0.11	14.05	0.51	9.7	8.79	7.05	31	31.06	5.79
V	ICP-OES	ppm	5	16	<5	94	4	27	20	5.31	32	32	5.37
W	ICP-MS	ppm	0.05	0.13	<0.05	6.54	0.23	<4	0.62	9.37	<4	0.25	21.13
Y	ICP-OES	ppm	2	7	<2	26	1	19	9	5.68	23	15	3.85
Yb	ICP-MS	ppm	0.005	0.61	0.08	2.12	0.13	2	0.84	6.11	2	1.55	5.03
Zn	ICP-OES	ppm	2	70	<2	595	7	337	319	2.50	189	186	2.45
Zr	ICP-MS	ppm	0.10	1.18	<0.10	39.79	4.67	134	2.17	75.44	105	1.65	84.18
LOI	Grav.	%	0.01	51.80	2.65	89.9	0.5	23.5	23.37	0.64	40.8	41.53	0.27

[1]ICP-MS = Inductively Coupled Plasma – Mass Spectrometry; ICP-OES = Inductively Coupled Plasma – Optical Emission Spectrometry; FA/ICP-MS = Fire Assay/ICP-MS finish; INAA = Instrumental Neutron Activation Analysis

[2]MDL = Method detection limit

[3]n = 1154 (does not include pulp duplicates or certified reference materials)

[4]Estimated precision at 95% confidence level based on 65 duplicate pairs; FA/ICP-MS elements based on results of 38 duplicate pairs.

[5]CV = Coefficient of Variation, defined as one standard deviation as a percentage of the mean

In general, the quality of the Savant Lake analytical data was very good. Minor quality control problems were noted in the ICP-MS data for Ag, Ga and Zr. Values for Ag and Zr are slightly elevated in the range from 00-DFR-0300 to 00-DFR-0420. Values for Zr and Ga are elevated from 00-DFR-1248 through the end of the sample sequence. Caution should be used with the interpretation of results from these sequences.

The precision of FA/ICP-MS elements (Au, Pt and Pd) was acceptable, and there is a general correlation between values for Pd and Pt. The estimated precision for Au, Pt and Pd were ±2.2, ±0.8 and ±1.8 ppb, respectively. Analyses for the standard materials were elevated in the sample range 00-DFR-0965 to 00-DFR-1008. Anomalies resulting from this section should be interpreted with caution. Minor analytical drift was also noticed from sample 00-DFR-1100 through the end of the sequence.

Analytical results for tantalum were almost entirely below method detection limits of 0.05 ppm for ICP-MS and 0.5 ppm for INAA. As a result, an assessment of the quality of the Ta data was not possible, and it has not been included in the lake sediment data set.

High coefficients of variation for the certified reference materials can be attributed to the fact that most of the analytical results for the elements in question were near or below the method detection limit.

Analytical results for gold by both INAA and FA/ICP-MS are included in this report. There is some corroboration between the 2 data sets, most noticeably in samples which are highly anomalous. Considering the possible inhomogeneity of gold and the inherent difficulties of low level analysis of small sample sizes (varying from 3 to 10 g), Au values that are not comparable by both methods should be treated with caution.

Quality control results for ICP-MS (lake waters) are shown in Table 2. The full lake water data set has been included in MRD-122, but the results are not discussed in this report.

Geochemical Data Interpretation

Factors to consider when assessing the possible significance of an anomaly are as follows:

1) Correlation with geology

In mineral exploration, correlation with geology is the most important factor when assessing the significance of a surficial geochemical anomaly, however, its relative importance declines as the known level of detail of the geology declines. Many of the geochemical anomalies discussed will help focus and prioritize future geological investigations.

2) Multi-site anomalies

Multi-site anomalies provide separate verification of the "anomalousness" of a given area and provide some insurance against non-systematic errors in sample quality, collection, preparation or analysis. However, as samples are collected, prepared and analysed in sequence, a uniform and numerically sequential anomaly may be the result of a systematic analytical or sample preparation error. This may produce an apparent geographic grouping of uniform concentrations in one, or possibly several, elements. As mentioned above, every effort has been made to detect this kind of problem but the user is reminded to consider all available data when assessing the importance of an anomaly.

Table 2. Summary of elements including estimates of precision, lake water data set.

Element	Analytical Method[1]	Units	MDL[2]	Median[3]	Range		Estimated Precision[4]	SLRS-4[5]; n = 13		
					Min	Max		Certified Value	Mean QC Result	Coefficient of Variation (%)
Ag	ICP-MS	ppb	0.008	0.0040	<0.008	0.167	0.006	—	0.004	0.00%
Al	ICP-MS	ppb	3.6	74.3000	<3.6	300	61.8	54	51.892	12.75%
Au	ICP-MS	ppb	0.001	0.0005	<0.001	0.091	0.0395	—	0.006	229.50%
Ba	ICP-MS	ppb	0.01	5.6300	0.12	26.35	1.54	12.2	12.572	4.84%
Be	ICP-MS	ppb	0.004	0.0070	<0.004	0.05	0.008	0.007	0.008	35.23%
Ca	ICP-MS	ppb	76	5564	273	33991.2	1801.4	6200	5473.462	7.59%
Ce	ICP-MS	ppb	0.002	0.2320	<0.002	4.04	0.103	0.012	0.352	5.05%
Co	ICP-MS	ppb	0.008	0.0220	<0.008	0.834	0.047	—	0.032	8.86%
Cr	ICP-MS	ppb	0.6	0.3000	<0.6	1.30	0.3	0.033	0.300	0.00%
Cs	ICP-MS	ppb	0.001	0.0080	<0.001	0.078	0.003	0.33	0.006	7.93%
Cu	ICP-MS	ppb	0.1	0.8500	<0.1	226.92	3.44	—	4.537	82.67%
Dy	ICP-MS	ppb	0.001	0.0150	<0.001	0.116	0.014	1.81	0.025	26.41%
Er	ICP-MS	ppb	0.001	0.0090	<0.001	0.063	0.019	—	0.014	49.77%
Eu	ICP-MS	ppb	0.001	0.0060	<0.001	0.048	0.002	—	0.010	12.25%
Fe	ICP-MS	ppb	48	92.5600	<48	995	74.68	—	90.538	34.18%
Ga	ICP-MS	ppb	0.002	0.1380	<0.002	0.565	0.085	103	0.285	12.97%
Gd	ICP-MS	ppb	0.001	0.0240	<0.001	0.235	0.012	—	0.041	12.11%
Ho	ICP-MS	ppb	0.001	0.0030	<0.001	0.022	0.003	—	0.005	31.62%
Li	ICP-MS	ppb	0.009	0.4670	0.0830	2.432	0.135	—	0.471	13.38%
Lu	ICP-MS	ppb	0.001	0.0010	<0.001	0.013	0.007	—	0.002	64.72%
Mg	ICP-MS	ppb	1.3	1170.35	94.6	4000	580.92	1600	1630.531	10.36%
Mn	ICP-MS	ppb	0.06	1.6300	0.13	30	2.19	3.37	3.105	5.86%
Mo	ICP-MS	ppb	0.05	0.0250	<0.05	0.70	0.04	0.21	0.202	5.30%
Nd	ICP-MS	ppb	0.001	0.1400	0.001	1.724	0.06	—	0.258	4.52%
Ni	ICP-MS	ppb	0.2	0.2000	<0.2	4.40	0.3	0.67	0.600	9.62%
Pb	ICP-MS	ppb	0.06	0.1000	<0.06	5.35	0.22	0.086	0.090	15.71%
Pr	ICP-MS	ppb	0.001	0.0380	<0.001	0.497	0.016	—	0.067	4.82%
Rb	ICP-MS	ppb	0.003	0.9480	0.111	7.63	0.306	—	1.483	4.75%
Sb	ICP-MS	ppb	0.007	0.0400	<0.007	0.53	0.036	0.23	0.276	6.49%
Sc	ICP-MS	ppb	0.3	0.5000	<0.3	2	0.45	—	0.885	12.93%
Sm	ICP-MS	ppb	0.001	0.0240	<0.001	0.255	0.069	—	0.055	5.08%
Sn	ICP-MS	ppb	0.1	0.0500	<0.1	2	0.05	—	0.050	0.00%
Sr	ICP-MS	ppb	0.01	8.3350	0.55	50	3.85	26.3	24.160	12.93%
Tb	ICP-MS	ppb	0.001	0.0030	<0.001	0.029	0.0025	—	0.005	17.72%
Th	ICP-MS	ppb	0.003	0.0200	<0.003	0.22	0.049	—	0.009	76.66%
Ti	ICP-MS	ppb	0.06	0.5000	<0.06	5.80	0.49	—	0.975	6.70%
Tl	ICP-MS	ppb	0.001	0.0040	<0.001	0.03	0.01	—	0.009	68.89%
Tm	ICP-MS	ppb	0.001	0.0010	<0.001	0.012	0.004	—	0.002	62.26%
U	ICP-MS	ppb	0.002	0.0280	<0.002	0.579	0.021	0.05	0.048	14.16%
V	ICP-MS	ppb	0.08	0.2200	<0.08	1.27	0.13	0.32	0.340	7.50%
W	ICP-MS	ppb	0.004	0.0020	<0.004	0.097	0.04	—	0.009	130.27%
Y	ICP-MS	ppb	0.001	0.0780	0.001	0.598	0.027	—	0.130	5.49%
Yb	ICP-MS	ppb	0.001	0.0080	<0.001	0.055	0.02	—	0.013	35.81%
Zn	ICP-MS	ppb	0.5	1.4000	<0.5	76.10	2.5	0.93	1.931	68.14%

[1] ICP-MS = Inductively Coupled Plasma – Mass Spectrometry
[2] MDL = Method detection limit
[3] n = 1157 (does not include pulp duplicates or certified reference materials)
[4] Analytical precision +/- to the 95% confidence level, based on 78 duplicate pairs
[5] SLRS-4 = National Research Council, St. Lawrence River Standard-4: certified reference standard

3) Multi-element anomalies

Multi-element anomalies with geologically reasonable elemental assemblages are useful in assessing the importance of many anomalies. For example, Pt and Pd, which are relatively immobile in the surficial environment compared to base metals such as Cu, Cr, Ni, Pb and Zn, would not be expected to be found in anomalous levels in lake sediment without an accompanying base metal signature. Gold on the other hand, can occur in quartz vein deposits with little or no associated base metals; therefore, a gold anomaly by itself can be significant. A gold anomaly with an associated base metal signature may be even more significant. However, certain multi-element anomalies (e.g., Mo + Zn) can sometimes result from limnological factors (e.g., redox conditions related to deep lakes, relative level of organic material in the sediment).

4) Magnitude of the anomaly

The magnitude of an anomaly, perhaps surprisingly, is one of the least important assessment criteria. Magnitude depends not only on the size of a deposit but on its distance from the lake, the presence and effectiveness of sinks between the source and lake, the limno-geochemical conditions in the lake, the weatherability of the deposit and the nature of the surficial deposits (i.e., level of carbonate). The weatherability depends on factors such as exposure and/or depth of burial and specific mineralogy of the source. These factors combine to make magnitude an unreliable estimate of the importance of an anomaly except in extreme cases or in cases where multiple samples and/or media corroborate its importance.

5) Correlation with Surficial Geology

Unconsolidated deposits can, under certain circumstances, cause a greater impact on the chemistry of lake media than can bedrock. Carbonate-rich eskers and thick ice-contact stratified drift deposits often result in nearby lakes having relatively hard, alkaline waters. This type of lake water provides a geochemical matrix for trace elements which is very different to that of most shield lakes which are mildly acidic and organic-dominated. In general, most metals are relatively immobile in such alkaline conditions, therefore geochemical anomalies might be considered more significant and possibly relatively close to source.

Dilution or addition to the trace metal signature in sediments can occur due to the presence of fine-grained unconsolidated material such as clay. Often a spatial relationship can be seen between lake sediment anomalies and glaciofluvial deposits such as eskers. In general, the sample collection and preparation protocols employed by the OGS, when properly carried out, minimizes the deleterious effects of exotic inorganic materials which may be present in the survey areas.

6) Redox conditions, lake depth and organic content

Not all spatial trends in geochemistry are due to lithological or mineralogical factors. The solubility of trace metals depends to a large extent on the geochemical matrix and in particular, on pH and oxidation-reduction (redox) conditions. Redox conditions in a lake are usually controlled by thermal conditions which, in turn, are controlled by lake morphology and lake depth. If conditions are suitable for an element to preferentially partition into the lake sediment, factors that may influence (enhance) the concentration of the element include the abundance of Fe, Mn and organic material. The mechanisms that may lead to "false anomalies" include sorption (scavenging) by hydrous oxides of Fe and Mn and the affinity of some elements to form organo-metallic complexes. Enrichment of some elements in the shallow (surface to 10 cm deep) sediment due to the upward migration and precipitation/concentration of Fe and Mn (and other trace elements such as Co, Pb, Mo and Zn originally co-precipitated with Fe and Mn) can occur. The OGS sampling technique avoids the surface sediment and targets the deep (>20 cm) sediment thereby reducing/minimizing the effects Fe, Mn and base metal enrichment that may occur in the surface sediment, whether by redox cycling or by anthropogenic input. This assumes a similar sedimentation rate in all of the sampled lakes and that the lake sediments deposited over the past several hundred years being undisturbed. This may not always be true. Sedimentation rates can vary depending on the energy of and the input to the depositional environment. Other factors to consider are sediment slumpage/mudslides, the effects of wavebase and the activities of animals. Therefore, the inadvertent collection of some "mixed" (shallow and deep sediment) samples is unavoidable.

Discussion of Regional Patterns

LIMNOLOGICAL PARAMETERS

Values for pH in the study area range from 4.30 to 8.91, with an average of 6.31 (Appendix A). Two regional trends in pH are evident. First, in areas of thin or no overburden pH tends to reflect the underlying geology. The pH values for lakes overlying metavolcanic rocks are more alkaline relative to values in granitoid areas which tend to be slightly acidic. This trend may reflect carbonatization within the greenstone belt resulting from folding and hydrothermal alteration. Second, the study area shifts from alkaline conditions in the northeast to slightly acidic in the southwest, possibly suggesting a decrease in the carbonate content of surficial deposits to the southwest. In areas of thicker overburden, the pH signature of the surficial material may mask the bedrock effects on pH.

Electrical conductivity (EC) values range from <10 to 245 µS/cm, averaging 48 µS/cm (Appendix A). Conductivity values mirror the trends for pH and appear to be strongly affected by the nature of the underlying material. Higher EC values are related to glaciofluvial deposits throughout the area, till deposits in the northeast and metavolcanic units in areas of thin or no overburden. Lower EC values tend to be associated with exposed areas of granitic plutonic rocks. The higher values most likely reflect the presence of dissolved carbonate minerals derived from the glacial deposits as well as hydrothermal alteration of the greenstone bedrock. They may also indicate the occurrence of weathered sulphide minerals derived from either bedrock or surficial sources.

The average lake depth for the study area is 4 m. Many of the deep lakes (>13 m) occur along major fault systems. Other deep lakes occur in areas of glaciofluvial ice-contact or outwash deposits and may be kettle lakes.

LAKE SEDIMENT GEOCHEMISTRY

The anomalies shown in Figure 4 and discussed in the following section are those which are of greatest interest to exploration. The selection is based not only on the geochemical results, but also takes into account such factors as the geology, and regional geophysics. The following discussion is not exhaustive and the reader is encouraged to undertake further investigation.

Local variations in geology can cause elevated background levels of certain elements, resulting in what appear to be large anomalous areas. An area north of Kashaweogama Lake with anomalous Al, P and Be in lake sediments is underlain by the Dickson Lake Stock, a post-tectonic biotite to amphibole-biotite granodiorite intrusion (Sanborn-Barrie 2000) with accessory apatite (Trowell 1986). A similar pattern, with less pronounced P content, is seen in Jutten and Smye townships, where the area is underlain by amphibole-biotite granodiorites of the Jutten Batholith (Sanborn-Barrie 2000). High regional values of Al in both cases likely result from an abundance of biotite and amphibole minerals. In the Dickson Lake Stock area, anomalous values for Be may reflect the concentration of the metal in late-stage magma (Goldschmidt 1958). In Jutten and Smye townships, muscovite is an accessory mineral in the Jutten Batholith (Bond 1979), and may be a favourable host for Be (Goldschmidt 1958). Trowell (1981) mapped a small pegmatite dike intruding a thin metasedimentary unit of the Handy Lake volcanics west of Harold Lake. It was suggested that this dike may be related to a granitic system underlying the area at a shallow depth. If so, this type of system could also provide a source for the anomalous rare-metal geochemistry in the area. Throughout the survey area, Be shows a strong correlation with Al (R^2=0.734).

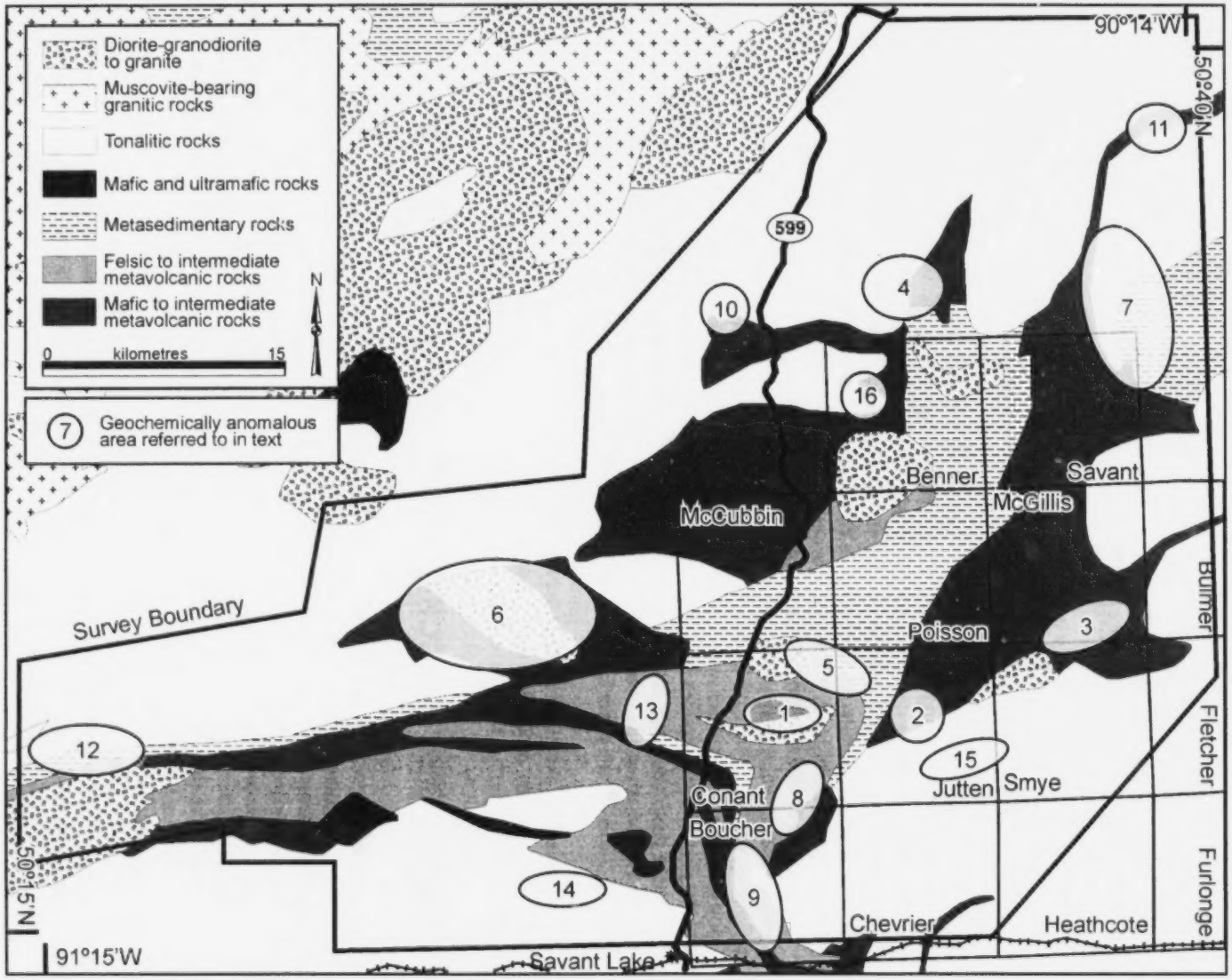

Figure 4. Location of geochemically anomalous areas.

Lake sediments in the western end of the survey area show a regional enrichment in K, Na, Nb, Cs, Li, Rb, Sc, Th and Ti. These results are in agreement with the results reported in Area 15 of Russell and Jackson (2002), and represent part of a larger area with elevated background values. This area is underlain by porphyritic biotite-hornblende trondhjemite and tonalite of the Fairchild Lake batholith. Trusler (1982) indicates small showings of pegmatite near Schist Lake; the presence of these pegmatites may be indicative of a regional magmatic source which is contributing to the geochemical results in this area.

Proportional dot maps for LOI, lake depth, pH and electrical conductivity were plotted on a generalized bedrock geology map of the study area and are shown in Appendix A. Proportional dot maps of analytical results for Ag, Al, Au (FA/ICP-MS and INAA), Be, Cd, Co, Cr, Cs, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Pd, Pt, total REE, Ti, U, V, W and Zn are contained in Appendix B. In this report, samples with less than 10% LOI were not included in the data set used for the production of the geochemical dot plots in Appendix B. Samples with a low amount of organic matter tend to suppress the geochemical signature of most trace elements due to the relative abundance of resistant quartz- and feldspar-rich material. Exceptions to this may include PGEs, which may show anomalous results in low-organic samples, especially when those samples were collected in the vicinity of mafic to ultramafic bedrock. All data, regardless of LOI value, has been included with the digital data released in conjunction with this report (MRD 122).

For most elements, concentrations exceeding the 90th percentile of the data set are defined as "elevated", concentrations >95th percentile are "anomalous" and concentrations >98th percentile are "highly anomalous". In some cases, precision estimates prohibited using these cutoff levels, so readers are encouraged to consult the legend which is shown with each figure. Elemental concentrations of Au exceeding 6 ppb for both data sets are considered to be of interest. Gold anomalies should be viewed with caution as the FA/ICP-MS method has some inherent potential sources of contamination, including the flux and furnaces used.

As of January 2003, most of the areas discussed in this report were available for staking. The approximate state of land tenure for the study area is shown in Figure 5. Readers are referred to the Provincial Recording Office for an up to date and precise description of the availability of land for staking. Sites referred to in the following discussion can be found on the sample location map (Figure 6, back pocket).

Description of Anomalous Areas

Area 1: Conant Lake area

Au (FA, INAA), Ag, Mo, Cu, Ni, Zn, Co, Pb, Cr

Sites: 385, 565, 642-645, 709, 717-720, 723-725

Anomalous values for Au, by both methods, were located in this area in central Conant Township. Conant Lake and a small pond immediately to the west produced 5 samples with anomalous Au values between 8.96 and 13.17 ppb by fire assay. Four of these sites (those from Conant Lake) were also anomalous by INAA (13 to 17 ppb), as well as 4 sites to the northwest in Staunton Lake (6 to 15 ppb) and 1 site to the north (7 ppb). The sites in Conant Lake also returned elevated to highly anomalous values for Ag, ranging from 0.22 to 0.54 ppm.

Elevated to anomalous Cu values were found at 7 sites (3 sites on Conant Lake ranging from 67 to 76 ppm and 4 sites on Staunton Lake ranging from 62 to 85 ppm). The 4 sites on Staunton Lake were also elevated to anomalous in Ni (30.82 to 36.92 ppm), while 2 additional sites and the 3 on Conant Lake were elevated to anomalous in Zn (129 to 166 ppm).

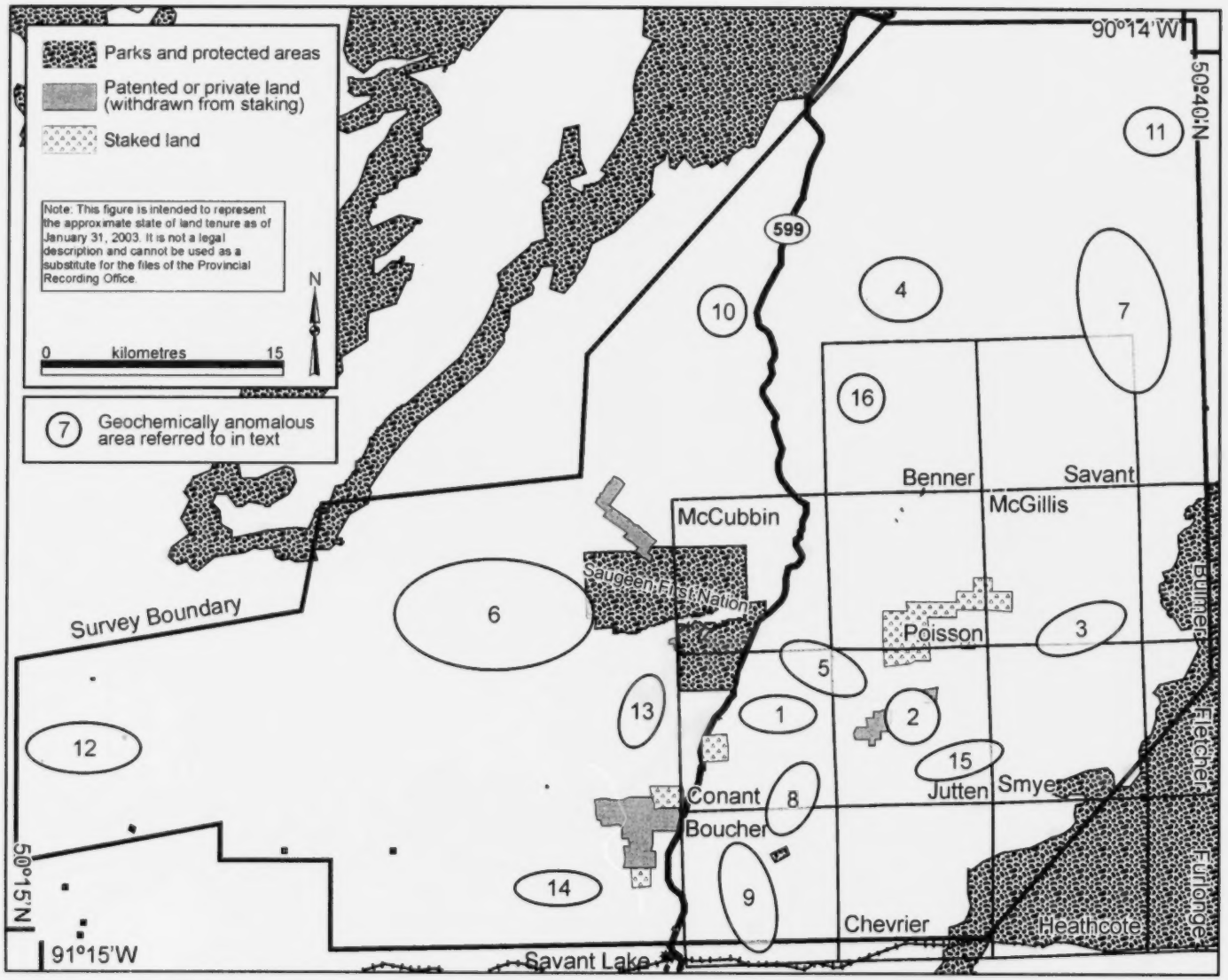

Figure 5. Approximate state of land tenure of the Savant Lake Survey area.

Values for Mo were elevated to highly anomalous at 10 sites across the area, ranging from 3.49 to 25.9 ppm. The 3 highest Mo values in this survey are from sites on Staunton Lake – site 718 (18.44 ppm), site 724 (21 ppm) and site 725 (25.9 ppm).

Elevated values for Pb (5.91 to 6.62 ppm) were returned from 3 sites on Conant Lake and a lake to the west. Co was elevated at one site on Conant Lake (10.76 ppm, site 645) and anomalous at one site on Staunton Lake (14.77 ppm, site 718). A single anomalous Cr value (44 ppm) was returned from site 723 on Staunton Lake.

This area is located within the felsic to intermediate metavolcanic rocks of the Handy Lake group. Intruding into these rocks, and underlying many of the sites are the Staunton Lake stock (metamorphosed diorite), the Conant Lake intrusion (granodiorite to trondhjemite) and the Handy Lake porphyritic sill (quartz-feldspar porphyry). Geophysics for the Sturgeon-Savant area (Ontario Geological Survey 1999) shows a discrete magnetic anomaly trending east-northeast, corresponding to the Staunton Lake stock. A smaller offshoot of this stock (Bond 1979; Sanborn-Barrie 2000) does not appear to have any magnetic expression.

As of January 30, 2003, one block of claims was located east of the highway at the western end of Staunton Lake. The rest of the area was available for staking.

Area 2: Hackett Lake area — *Pt, Pd, Ag, Cu, Ni, Zn, Cd, Co*

Sites: 827-829, 833-839, 842-847,

This area in central Jutten Township is focused on 5 sites (843 to 847), located immediately south of Hackett Lake. The highest PGE values for the survey were found in the sample from site 844 (18.04 ppb Pd, 16.19 ppb Pt). Sites 845 and 846 returned the 2 highest Cu values of the survey (273 and 269 ppm), the 2 highest Cd values (2.42 and 2.47 ppm), and the 2nd and 3rd highest PGE and Ag values (6.89 ppb Pd, 3.20 ppb Pt, 0.64 ppm Ag and 6.77 ppb Pd, 3.95 ppb Pt, 0.66 ppm Ag, respectively). Results for Ni were highly anomalous at site 845, which returned a value of 42.87 ppm. The other 3 sites (843, 844, 847) also returned anomalous to highly anomalous Cu results (79 to 132 ppm) and highly anomalous Cd (1.28 to 1.45 ppm). Highly anomalous values for Ag (0.42 to 0.51 ppm) and elevated to highly anomalous values for Zn (136 to 194 ppm) and Co (11.07 to 21.62 ppm) were returned from 4 of the 5 sites (values for these elements were quite low at site 844).

In addition to the above 5 sites, 10 sites trending northeast in a band from site 842 (west of Hackett Lake) to sites 828 and 829 (east of Stillar Bay) returned anomalous to highly anomalous values for Cu, ranging from 73 to 166 ppm. Of those sites, 5 returned elevated Ni results (values from 29.63 to 32.93 ppm at sites 828, 833, 835, 836, and 839). Site 839 also returned elevated Ag (0.29 ppm), anomalous Zn (146 ppm) and highly anomalous Cd (1.36 ppm). Site 836 returned anomalous Cd (0.95 ppm) and the second highest Co value of the survey (45.35 ppm). The lake depth at this site was also quite deep (23 m), with very high levels of Fe and Mn, indicating that the results may be influenced by factors other than local geology.

The geology underlying this area consists of pillowed lava and fine- to coarse-grained intermediate to mafic metavolcanic flows of the Jutten Group. This area is referred to by Bond (1979) as the "Ranta" option. A hole drilled in 1972 by Noranda Exploration Company to the east of Hackett Lake assayed 0.21 oz/t Ag, 0.04% Cu, 0.45% Zn and 0.02% Ni at 264.8 feet (Bond 1979).

As of January 31, 2003, most of this area was open for staking. An area of patented land lies to the east of Hackett Lake, south of site 837.

Area 3: Leggo Lake – Virginian Lake area *Cu, Ni, Zn, ±Cr, ±V*

Sites: 79, 81, 157, 158, 160, 162-164, 204, 205, 318, 319, 322, 332, 333

Ten sites on the border between McGillis and Smye townships returned elevated to highly anomalous values for Cu (61 to 117 ppm). The sites lie within 2 discrete drainage basins, and are distributed over Leggo, Pride, Silver and Virginian lakes. Values for Ni are elevated to highly anomalous at 8 sites, 6 of which are on Virginian, Silver and Pride lakes. The other 2 (sites 79 and 157) are located up-drainage (south) of Silver Lake, and also contain elevated to anomalous levels of Cr. Values for Ni range from a low of 30.15 ppm at the south end of Silver Lake (site 158) to a high of 39.07 ppm at the south end of Virginian Lake (site 81). Elevated values for Zn were returned from sites 81 and 162 on Virginian Lake (125 and 128 ppm), as well as from site 163 on Elga Lake to the east (144 ppm). The Elga Lake site was also elevated in V.

Two sites on Hazel Lake to the north (sites 332 and 333) returned elevated and anomalous values for Zn (143 and 164 ppm). Anomalous Ag results in the Hazel Lake area lie within a sample sequence marked by elevated results in the certified reference materials (see Quality Control Results) and are likely artificially inflated.

Bedrock geology of this area is mafic to intermediate in composition, consisting of pillowed lavas and chloritic and actinolitic metavolcanic rocks (Bond 1977). The central part of this area which lies between Leggo and Virginian lakes is represented by a regional magnetic low (Ontario Geological Survey 1999) with northeast-trending lineaments of higher magnetic strength. These lineaments are parallel to jointing and foliation mapped by Bond (1977) and may represent secondary fracture filling. The southern tip of Virginian Lake is underlain by a discrete magnetic high, which sharply contrasts with the low area to the northwest. Bond (1977) indicates that the metavolcanic rocks in this area may be "intrusive, in part". The Hazel Lake area is also underlain by a discrete magnetic high which is in sharp contrast to the low in the centre of the area (Ontario Geological Survey 1999).

Diamond drilling by Dome Exploration (Canada) Limited in 1970-71 identified pyrite, pyrrhotite and minor chalcopyrite in close association with quartz-carbonate and silicified zones in the metavolcanic rocks. One hole north of the central part of Leggo Lake identified a siliceous zone with disseminated pyrite, pyrrhotite and minor chalcopyrite which assayed 0.11 to 0.6% Cu and up to 0.15% Zn (Bond 1977).

As of January 31, 2003, this area was open for staking. A group of claims was registered to the west, covering a number of the islands just to the north of Southeast Bay (Savant Lake).

Area 4: Neverfreeze Lake area *Zn, Cu, Ni, Co, Cd, Ag, V, Cr*

Sites: 218, 457, 458, 467-469, 471, 473-475, 490, 492, 493

Values for Zn were anomalous to highly anomalous at 8 sites in this area, with values ranging from 155 to 448 ppm. Elevated to highly anomalous Cu values ranged from 66 to 102 ppm at 5 sites; Ni values were elevated to highly anomalous at 7 sites (32.28 to 45.45 ppm). Elevated and highly anomalous Mo was present at sites 490 and 218, respectively, and Co values were elevated to highly anomalous at 5 sites (10.97 to 48.88 ppm).

Sites 218, 467 and 469 also returned anomalous to highly anomalous values for Cd, Ag, V and Cr. Site 218 returned the highest Co value and the second highest Zn value of the survey (48.88 and 448 ppm,

respectively). Trowell (1986) reported a Jutten Group tholeiitic basalt sample from the eastern shore of Neverfreeze Lake (adjacent to site 469) with 960 ppm Cr, 500 ppm Ni, 310 ppm Cu and 75 ppm Co.

Sites 218 and 469 also returned anomalous to highly anomalous Fe and Mn values, and have lake depths of 9 m and 11 m. These factors suggest that the anomalies at these 2 sites may be somewhat enhanced as a result of Fe-Mn scavenging. Field notes taken during sampling indicate that the lake sediments were wetter than normal, which may also point to the samples being "mixed" samples (incorporating some material from the upper 20 cm). Site 467 also returned anomalous Fe and has a depth of 10 m, suggesting that metal scavenging may have occurred. Although some caution is advised with individual sites, the underlying geology and surrounding anomalies in Zn, Cu, Ni and Co enhance the reliability of the results for this area, thereby warranting further investigation.

Bedrock geology for the area consists of mafic metavolcanic rocks of the Jutten Group overlain by conglomerate of the Narrows Formation and feldspathic wacke of the West Shore Formation (Savant Group). Sanborn-Barrie (2000) indicates that the mafic volcanic rocks of the Jutten Group contain horizons of oxide-facies ironstone; Trowell (1986) identified one such unit in the Neverfreeze Lake area with bands of silicate ironstone intercalated with pyrite-pyrrhotite ironstone. Locally, magnetic highs (Ontario Geological Survey 1999) support the presence of these units. Trowell (1986) suggests that magnetite-chert ironstone units are a favourable prospecting target for precious and base metal mineralization.

As of January 31, 2003, this area was open for staking.

Area 5: Grebe Lake area — *Cu, Zn, Co, Cd, Ni, Ag, As*

Sites: 382, 571, 573

Three closely-spaced lakes comprise this anomalous area. Values for Zn are anomalous to highly anomalous at all 3 sites. Site 382 has the highest Zn value for the survey area (595 ppm); site 571 has the 3rd highest Zn value (283 ppm). Site 573 returned 126 ppm Zn. Sites 382 and 571 respectively returned anomalous values for Cu (73 and 76 ppm), highly anomalous to anomalous Co (43.17 and 13.08 ppm) and highly anomalous Cd (1.59 and 1.13 ppm). Site 382 also produced the 3rd highest Ni value for the survey area (49.69 ppm). Site 573 returned an anomalous Ag value (0.41 ppm), while sites 571 and 573 returned anomalous to highly anomalous As (17 and 20 ppm). The concentration of Fe at site 382 was also highly anomalous.

Field notes for sites 382 and 571 indicate that the sediment was watery and may possibly represent a mixed sample with some enrichment from shallow lake sediments. Bedrock geology for this area is favourable for a lithological source of the anomalies. These sites overlie a contact between the mainly felsic to intermediate metavolcanic rocks of the Handy Lake Group and the lithic and feldspathic wacke of the West Shore Formation. A discrete magnetic high is situated to the south of site 382 (Ontario Geological Survey 1999). As well, Bond (1979) indicates small intrusions of gabbro in this area. One diamond drill hole completed in this area by Canadian Nickel Company Ltd. in 1971 intersected 1% sulphide between 130 and 139 feet.

As of January 31, 2003, this area was open for staking.

Area 6: Dickson Lake area

Ni, Mo, Co, Cr, ±Cu, ±Ag, ±Cd,

Sites: 904-907, 910, 1000, 1002-1005, 1007, 1008, 1012, 1015, 1018, 1033, 1034, 1038-1042, 1044, 1048, 1045, 1068, 1069

This anomaly is characterized by 2 separate areas which flank the Dickson Lake Stock. The predominant element in the area is Ni, with elevated to highly anomalous values at 21 sites. Concentrations range from 29.77 ppm to the 2 highest Ni values in the survey, 53.40 ppm at site 1045 and 50.47 ppm at site 907. Values for Cr were elevated to highly anomalous (38 to 68 ppm) at a total of 13 sites, Co was elevated to anomalous (11.06 to 15.10 ppm) at 8 sites and Mo was elevated to highly anomalous (2.81 to 6.88 ppm) at 7 sites.

Sites of particular interest in this area are 1033, 1045, 1068 and 1069. In addition to highly anomalous Ni, site 1045 returned highly anomalous Cr (68 ppm), anomalous Co (14.47 ppm) and elevated values for Cu (67 ppm), Cd (0.90 ppm), Mo (2.89 ppm) and Ag (0.25 ppm). Site 1068 returned highly anomalous Ni and Cr (43.44 and 46 ppm, respectively), while site 1069 returned highly anomalous Ni (45.75 ppm) and anomalous Cu (82 ppm). Site 1033 returned anomalous Ni (38.52 ppm) and elevated Cr (38 ppm). Trowell (1986) reported results from a tholeiitic basalt sample adjacent to this site with 1040 ppm Cr and 350 ppm Ni.

Bedrock geology underlying these sites consists of mafic metavolcanic rocks of the Jutten Group which have been intruded by komatiitic ultramafic intrusive sills (Trowell 1986). Larger sills are geophysically characterized by linear magnetic highs, while smaller intrusions (e.g., south arm of Armit Lake) have a more discrete geophysical response (Ontario Geological Survey 1999).

Anomalous values for Pt and Pd were returned from a total of 7 sites northwest of Winsome Lake. With the exception of site 906, none of the sites have any corresponding base metal anomalies. In addition, all of these sites fall within a sample sequence marked by elevated results for the certified standard materials and should be considered artificially elevated.

Site 906 returned anomalous Pd (2.96 ppb) and also has highly anomalous Ni (41.91 ppm). It should be noted that Pd concentrations in lake sediment at this level are not normally considered anomalous and this result may reflect background levels of PGEs related to ultramafic rocks in the area. This site is located to the north of Dickson Lake and lies along a northwest-trending magnetic anomaly (Ontario Geological Survey 1999) which may represent an ultramafic intrusive unit within the mafic metavolcanic rocks of the Jutten Group, similar to that found at Dickson Lake to the south. Sanborn-Barrie (2000) has mapped the bedrock geology underlying this site as metasedimentary rocks of either the Jutten Group or the West Shore Formation.

Site 1048, located to the south on Kashaweogama Lake, returned anomalous to highly anomalous values for several elements, including Zn, Mo, Cd, Pb, Co and Ni, but the depth (25 m) and highly anomalous levels of Fe and Mn suggest that these results could be influenced by factors other than geology.

Trowell (1986) recommended that the ultramafic rocks in the Armit Lake area be examined for Cu-Ni-PGE potential. Keeping in mind the QC data for Pd and Pt, the geology, geophysics and base metal geochemistry of this area are favourable for this type of occurrence and the area may warrant further investigation, particularly for base metals.

As of January 31, 2003, this area was open for staking.

Area 7: Northeast Arm (Savant Lake) — *Ni, Cr, Cu, Pt, Pd, Co, As, V, Zn*

Sites: 33, 35, 58, 110, 111, 113, 114, 170, 172, 197, 343, 345-347, 958, 962

This area is characterized by a regionally elevated background level for Ni with 16 sites returning elevated to highly anomalous values (30.34 to 47.61 ppm). Data from Russell and Jackson (2002) indicate that this trend continues to the east. This area also has elevated background levels of Cr (8 sites, 39 to 85 ppm) and As (10 sites, 9 to 48 ppm).

Sites 345 and 346 are of particular interest. Site 346 returned the highest Ni value for this particular area (47.61 ppm) as well as the highest Cr value of the survey (85 ppm). Values for V and Zn were anomalous (48 ppm and 153 ppm) while Co and As values were elevated (11.27 ppm and 10 ppm). Site 345 returned anomalous values for Ni and Cu (36.34 ppm and 72 ppm) and highly anomalous As (25 ppm).

Anomalous values for Pd (4.39 ppb) and Pt (1.65 ppb) were returned from site 347, but without any Cu-Ni anomalies. Considering the precision of these elements (±1.8 ppm for Pd and ±0.8 ppm for Pt), and lack of corroborating base metal anomalies, these results should be treated with some caution. This site is underlain by ultramafic rocks (Sanborn-Barrie 2000). As with site 906 (Area 6, above), the resulting PGE anomalies at these concentrations may be reflecting low levels of PGEs within the ultramafic unit. This area may warrant further investigation for these elements but caution is advised.

Bedrock geology for this area generally consists of a mix of mafic metavolcanic rocks of the Jutten Group with minor clastic metasedimentary rocks of the Jutten Group sedimentary sequence. Granitic rocks lie to the northeast, and the boundary between the metavolcanics and the granite has been intruded by a gabbroic unit (Sanborn-Barrie 2000).

As of January 31, 2003, this area was open for staking.

Area 8: Harold Lake area — *Cu, Ni, Zn, Mo, Pb, Cd, Co*

Sites: 271, 557, 559, 560, 563

This anomaly consists of 5 sites on or around Harold Lake. Site 557 at the south end of Harold Lake returned anomalous Ni (35.56 ppm), highly anomalous Zn (235 ppm), elevated Cu (64 ppm) as well as highly anomalous Co and Cd, and anomalous levels of Mo and Pb. Site 559 returned highly anomalous Co, anomalous Pb and elevated Cd, Mo and Zn. Both of these sites are quite deep (13 and 31 m) and both have highly anomalous levels of Fe and Mn. These factors may be contributing to some of the anomalous results from these 2 sites, particularly those in Co, Pb, Mo and Zn. Fe-Mn scavenging is less likely to be a factor in the accumulation of Cu and Ni.

Site 560, at the northern end of Harold Lake, returned highly anomalous Ni (39.66 ppm), anomalous Cu (79 ppm) and elevated Mo (2.84 ppm). This site drains north into Handy Lake where site 563 returned anomalous Ni and Co (33.97 ppm and 12.52 ppm), and elevated Pb and Zn (5.98 ppm and 142 ppm).

Site 271, located immediately east of and draining into Harold Lake, yielded highly anomalous Cu (105 ppm), anomalous Zn (162 ppm) and elevated Cd (0.90 ppm).

This anomaly lies in an area underlain by the contact between the Jutten Group mafic metavolcanic rocks and the felsic to intermediate metavolcanic rocks of the Handy Lake Volcanic Group. Small units of the West Shore Formation are also located throughout the area and trend parallel to the orientation of Harold Lake. Linear magnetic highs noted in the area (Ontario Geological Survey 1999) are likely produced by magnetite iron formation within these sedimentary units. The Savant Lake Fault trends northeast and forms the structural basis for the morphology (shape and depth) of Harold Lake.

As of January 31, 2003, this area was open for staking.

Area 9: Harris Lake area — *Cr, Zn, Ag, Co, Cd, Pb, Mo, Ni, V*

Sites: 1, 462, 555, 790

Three sites on Harris Lake (1, 462 and 555) and one site to the west (790) make up this anomaly. Most of the elements listed above are highly anomalous at site 1 (Cr, Mo are elevated, Pb is anomalous). This site also returned highly anomalous Fe and Mn. The lake depth at this site is <2 m which suggests that the sample is probably a mixed sample resulting from wave action and/or animal activity; these results may be somewhat elevated. Site 462 returned anomalous values for Ag (0.31 ppm), Cd (0.95 ppm), Pb (7.43 ppm) and Zn (164 ppm), and elevated Cr (39 ppm). Site 555 at the north end of Harris Lake returned elevated Ag and Pb values (0.23 and 6.6 ppm). Site 790 returned highly anomalous values for Cr and Cd (55 and 1.26 ppm), and elevated Zn (125 ppm).

This area is underlain by alternating units of mafic and felsic to intermediate metavolcanic rocks of the Handy Lake Group with minor amounts of metasedimentary rocks of the Savant Group. An area of extensive silicification is indicated on the east side of Harris Lake by Trowell (1981).

As of January 31, 2003, this area was open for staking.

Area 10: Northeast Hill Lake area — *Pb, Cu, Mo, Zn, Co*

Sites: 684, 685, 686, 700, 753

In this area site 684 returned elevated to highly anomalous values for all of the listed elements. Values for Zn, Mo and Co were elevated (137, 2.85 and 11.62 ppm, respectively), Cu was anomalous (90 ppm) and Pb was highly anomalous (11.12 ppm). Site 700 returned elevated Cu (62 ppm) and anomalous Pb (7.26 ppm).

Elevated values for Co were returned from sites 686 and 753; site 753 also returned an elevated value for Zn (126 ppm) while site 686 returned an anomalous value for Pb (7.78 ppm). Site 685 returned a single highly anomalous Pb value of 10.16 ppm.

The lake depth at sites 686 and 753 (16 and 9 m) coupled with the anomalous results for Fe and Mn suggest that the base metal results at these sites may be somewhat inflated. Fe-Mn scavenging of these elements may have enough of an influence to raise the concentrations to "elevated" levels.

This area is underlain by mafic metavolcanic rocks of the Jutten Group (Sanborn-Barrie 2000).

As of January 31, 2003, this area was open for staking.

Area 11: Little Savant Lake area — *U, Mo, Cu, Cr, Cd*

Sites: 42-45, 51-54, 180-183, 185, 187, 358

A total of 13 sites in the immediate vicinity of Little Savant Lake returned elevated to highly anomalous values for U, ranging from 4.64 to 13.12 ppm (which was the 2nd highest value in the survey, at site 44). This trend continues outside the survey area to the east (Russell and Jackson 2002). Values for Mo were elevated to highly anomalous at 5 sites (2.74 at site 44, 3.56 ppm at site 181, 4.57 at site 45, 4.68 ppm at site 52 and 5.40 at site 43). In addition to highly anomalous U and anomalous Mo, site 45 also returned highly anomalous Cu (98 ppm) and elevated Cd (0.86 ppm).

Site 52, with elevated U and anomalous Mo, also returned an elevated value for Cu (65 ppm).

Additional anomalies in this area include elevated Cd at site 42 (0.89 ppm), elevated Cu at site 187 (61 ppm) and anomalous Cr at site 51 (43 ppm).

The bedrock geology of this area consists of a northeast trending sliver of mafic metavolcanic rocks which is bounded to the north and south by monzonitic to tonalitic felsic intrusive rocks. The mafic metavolcanic rocks at the northernmost embayment of Little Savant Lake have been intruded by a small gabbroic body and minor pegmatitic plutonic rocks (Sanborn-Barrie 2000).

As of January 31, 2003, this area was open for staking.

Area 12: Schist Lake area — *Cr, Pb, V, Ni, Co*

Sites: 293, 294, 299, 300, 301, 1096, 1140

Base metal results in this area are mainly elevated with a few highly anomalous concentrations. Site 294, located northwest of Schist Lake, returned elevated Ni (30.41 ppm), Cr (40 ppm) and Pb (6.46 ppm), and highly anomalous V (52 ppm). As a note of caution, the loss-on-ignition (LOI) value for this site was 17.3% which indicates that the sample had a high inorganic (clastic) component. Some of the results at this site may be influenced by the amount of clastic material present in the sample. The fact that this site is near the top of a drainage basin and is underlain by granite does little to enhance the results.

Site 293, located at the west end of Schist Lake, returned anomalous Ni (35.1 ppm) and Cr (44 ppm) and elevated Pb (5.9 ppm). Further along the lake, sites 301 and 1140 returned elevated values for Cr (40 and 38 ppm).

Site 299 returned highly anomalous Co and V (15.86 and 56 ppm) along with anomalous Pb (7.38 ppm). Sites 300 and 1096 both returned elevated Pb values (6.25 and 6.72 ppm).

Sites 293, 301, 1096 and 1140 all had LOI values between 20 to 25%, indicating possible clastic influences on some of the results.

This area is underlain by a mix of felsic intrusive rocks, clastic and chemical metasedimentary rocks of the Narrows and West Shore formations, mafic to intermediate metavolcanic rocks of the Handy Lake Group and a thin east trending mafic metavolcanic outlier of the Jutten Group (Trusler 1982; Sanborn-Barrie 2000). The Kashaweogama Lake Fault, a major east-trending regional structure, runs beneath Schist Lake.

As of January 31, 2003, this area was open for staking.

Area 13: Shoehorn Lake area *Cu, Mo, Cd*

Sites: 863, 922, 925

Site 925 at the southern tip of Shoehorn Lake returned the third highest Cu value of the survey (174 ppm). Values for Cd and Mo were anomalous and elevated, respectively (0.97 ppm and 2.83 ppm). To the northeast, sites 922 and 863 returned anomalous values for Mo (4.50 and 4.57 ppm).

These sites are located in an area of felsic to intermediate metavolcanic rocks of the Handy Lake Group and metasediments of the West Shore Formation. All of the units have been subjected to 2 folding and deformation events. Bond (1980) indicates an area of carbonatized rocks near the southwest end of Shoehorn Lake and a pyrite/pyrrhotite occurrence on the shore to the south of the carbonatized zone.

As of January 31, 2003, this area was open for staking. Site 863 is located to the west of the Saugeen First Nation.

Area 14: Barnard Creek area *Co, Ag, Cd, V, Pb, Zn*

Sites: 275, 311, 313-315, 982, 1160, 1161

In this area site 314 returned the most consistent anomalous results. Values were anomalous for V (44 ppm) and Cd (0.95 ppm), and elevated for both Ag (0.27 ppm) and Co (10.92 ppm). Sites 313 and 1161, located on the same lake as site 314, returned anomalous Co (14.56 and 12.36 ppm) and elevated to anomalous Ag (0.23 and 0.3 ppm). Site 313 also returned elevated Zn (142 ppm), while site 1161 returned anomalous Cd (1.00 ppm).

Values for Ag were also elevated at sites 982 and 1160. The Ag values from sites 313 and 314 should be treated with caution as they lie within the elevated sequence noted in the Quality Control Results discussion. However, the fact that anomalous results occur in the same area within later sample sequences enhances the validity of the Ag data.

Site 982 also returned elevated Pb (6.49 ppm) and anomalous Cd (1.03 ppm). Site 275 returned an elevated value for V (39 ppm) while sites 311 and 315 returned anomalous (13.41 ppm) and elevated (12.15 ppm) values for Co.

Bedrock underlying the immediate area consists of tonalite to quartz diorite. Up-drainage, to the north, lie mafic to intermediate metavolcanic rocks of the Handy Lake Group.

As of January 31, 2003, this area was open for staking.

Area 15: Central Jutten-Smye Township area *Zn, Pb, Ag, Co, Cd, V*

Sites: 73, 146, 147, 794

This area lies along the border between Jutten and Smye townships, to the east of Jutten Lake. Site 147, immediately west of the border, returned elevated to anomalous results for all of the elements indicated. Values for Zn and Co were highly anomalous (194 and 19.3 ppm), concentrations of Pb, V and Cd were anomalous (7.11, 48, and 1.09 ppm, respectively), and Ag returned an elevated value of 0.28 ppm. To the east, site 73 returned a highly anomalous value for Zn (168 ppm) and elevated values for Co, Cd and Pb (12.3, 0.90, and 5.96 ppm, respectively). Site 146 returned elevated values for Ag and Pb (0.29 and 6.43 ppm) while site 794 returned elevated Ag and V (0.24 and 43 ppm), and highly anomalous Pb (9.04 ppm).

Bedrock in this area consists of monzonite to granodiorite. The orientation of a number of lakes in this area is controlled by several east-northeast trending fractures or lineaments, some of which may provide a conduit for mineralizing fluids.

As of January 31, 2003, this area was open for staking.

Area 16: Northwest Benner Township area — *Pb, Cd, Ag, Zn*

Sites: 587, 593, 596, 597

Site 597 returned elevated values for Ag (0.25 ppm) and Zn (141 ppm), anomalous Cd (1.00 ppm) and highly anomalous Pb (8.01 ppm). Site 596 returned elevated Ag (0.23 ppm), anomalous Cd (1.06 ppm) and highly anomalous Pb (9.22 ppm). Site 587 had elevated Pb (6.28 ppm) while site 593 returned a highly anomalous value for Cd (1.27 ppm).

This area lies along the contact between the tonalitic to dioritic Tersha Lake Stock and the mafic metavolcanic rocks of the Jutten Volcanic Group (Sanborn-Barrie 2000).

As of January 31, 2003, this area was open for staking.

Conclusions

Preliminary interpretation of the lake sediment analytical results for the Savant Lake area indicates the presence of 16 anomalous areas. The anomalous areas are multi-element, multi-site anomalies, many of which are considered priority areas for exploration activities. Some single element and/or single site anomalies may also warrant further investigation, particularly if they are located in regions of favourable geology or known mineral occurrences. The treatment of available data is not considered to be exhaustive and the reader is encouraged to carry out further investigations.

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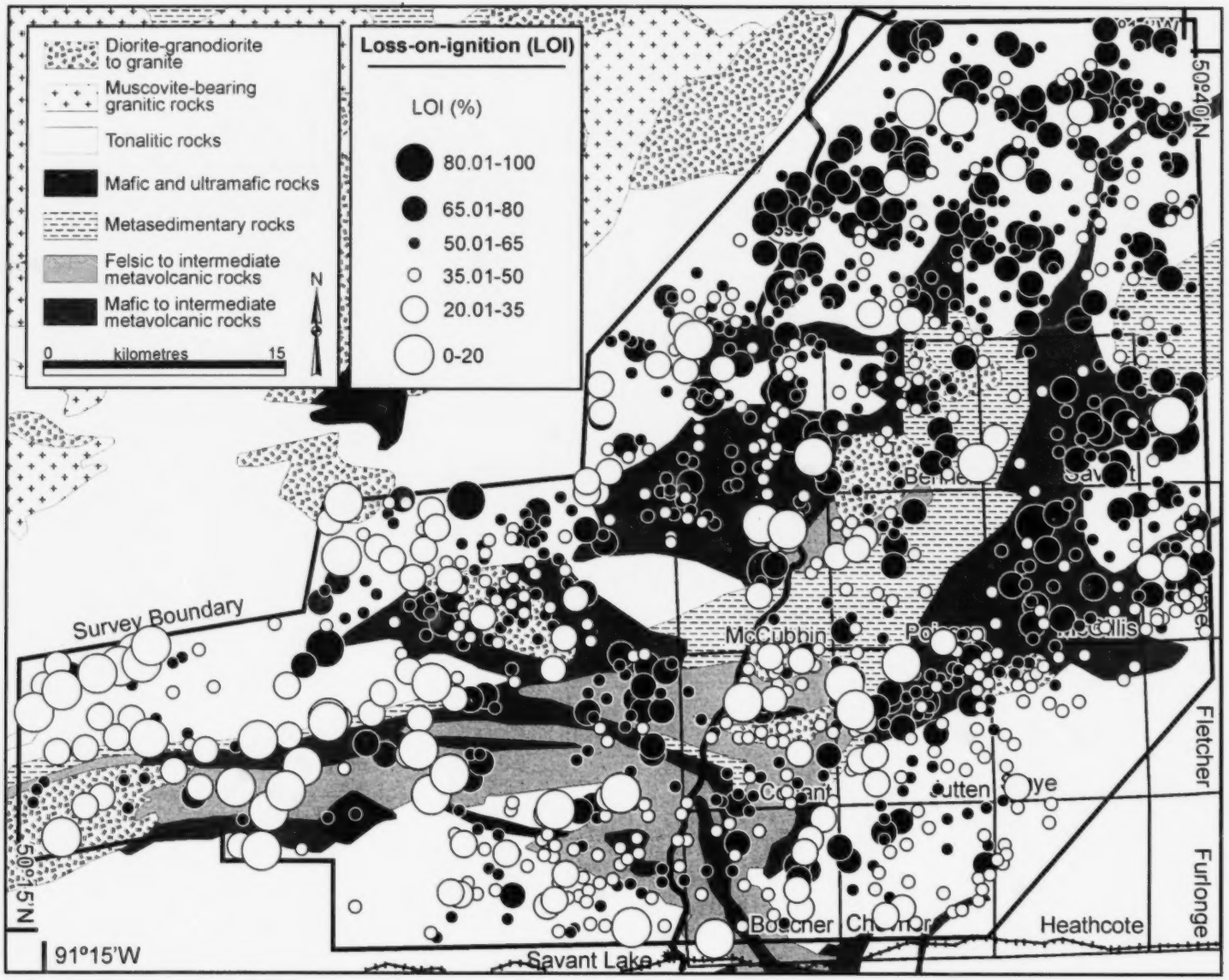
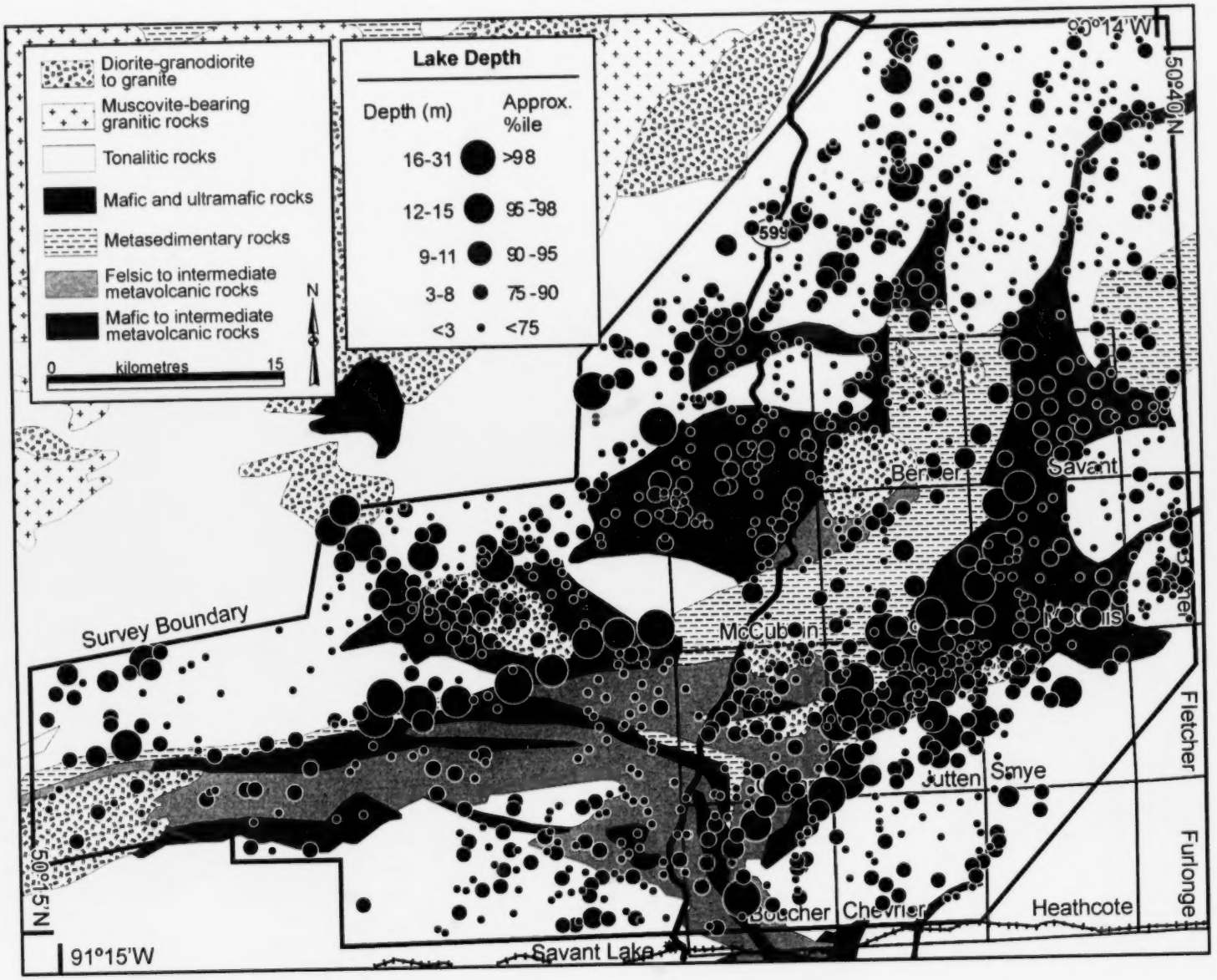
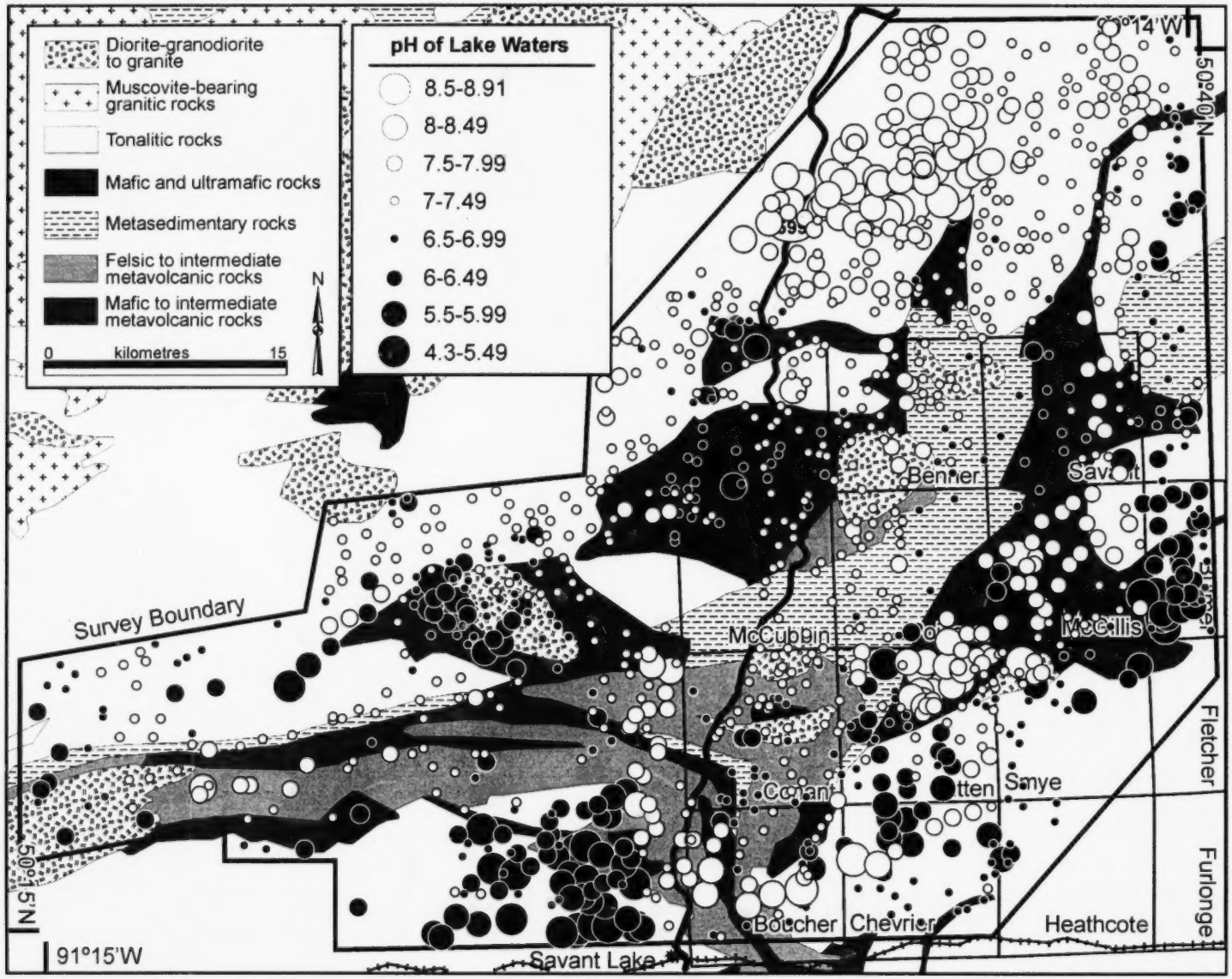
Appendix A

Proportional Dot Maps of LOI, Lake Depth, pH and Conductivity


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Loss-on-ignition (LOI)
LOI (%)
80.01-100
65.01-80
50.01-65
35.01-50
20.01-35
0-20
50°40'N
50°15'N
91°15'W
Survey Boundary
McCubbin
Fletcher
Furlonge
Heathcote
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0 kilometres 15
Lake Depth
Depth (m)
Approx. %ile
16-31 >98
12-15 95-98
9-11 90-95
3-8 75-90
<3 <75
95°14'W
50°40'N
599
Survey Boundary
McCubbin
Savant
Fletcher
Furlonge
Jutten
Smye
Boucher
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
pH of Lake Waters
8.5-8.91
8-8.49
7.5-7.99
7-7.49
6.5-6.99
6-6.49
5.5-5.99
4.3-5.49
Survey Boundary
McCubbin
Benner
Savant
McCallis
Fletcher
Furlonge
Smye
Heathcote
Chevrier
Boucher
Savant Lake
50°40'N
50°15'N
91°15'W

50°40'N
91°14'W
50°15'N
91°15'W
Fletcher
Furlonge
Heathcote
Savant
Benner
Jutten
Smye
Chevrier
Savant Lake
Survey Boundary
Conductivity in Lake Waters
Conductivity µS/cm
Approx. %ile
20501-89413 >98
17301-20500 90-98
14601-17300 75-90
12101-14600 50-75
0-12100 <50
Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0
15
kilometres

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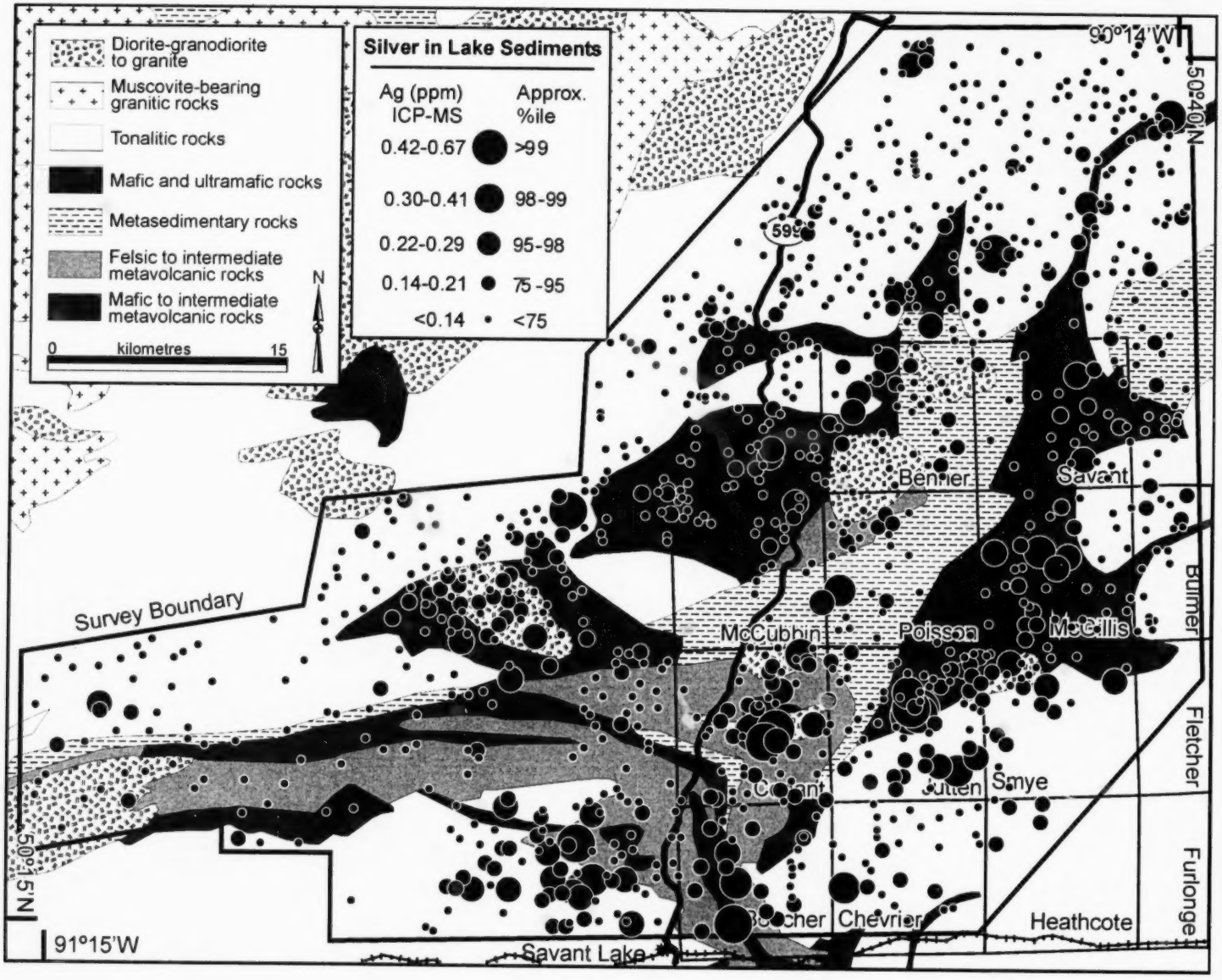
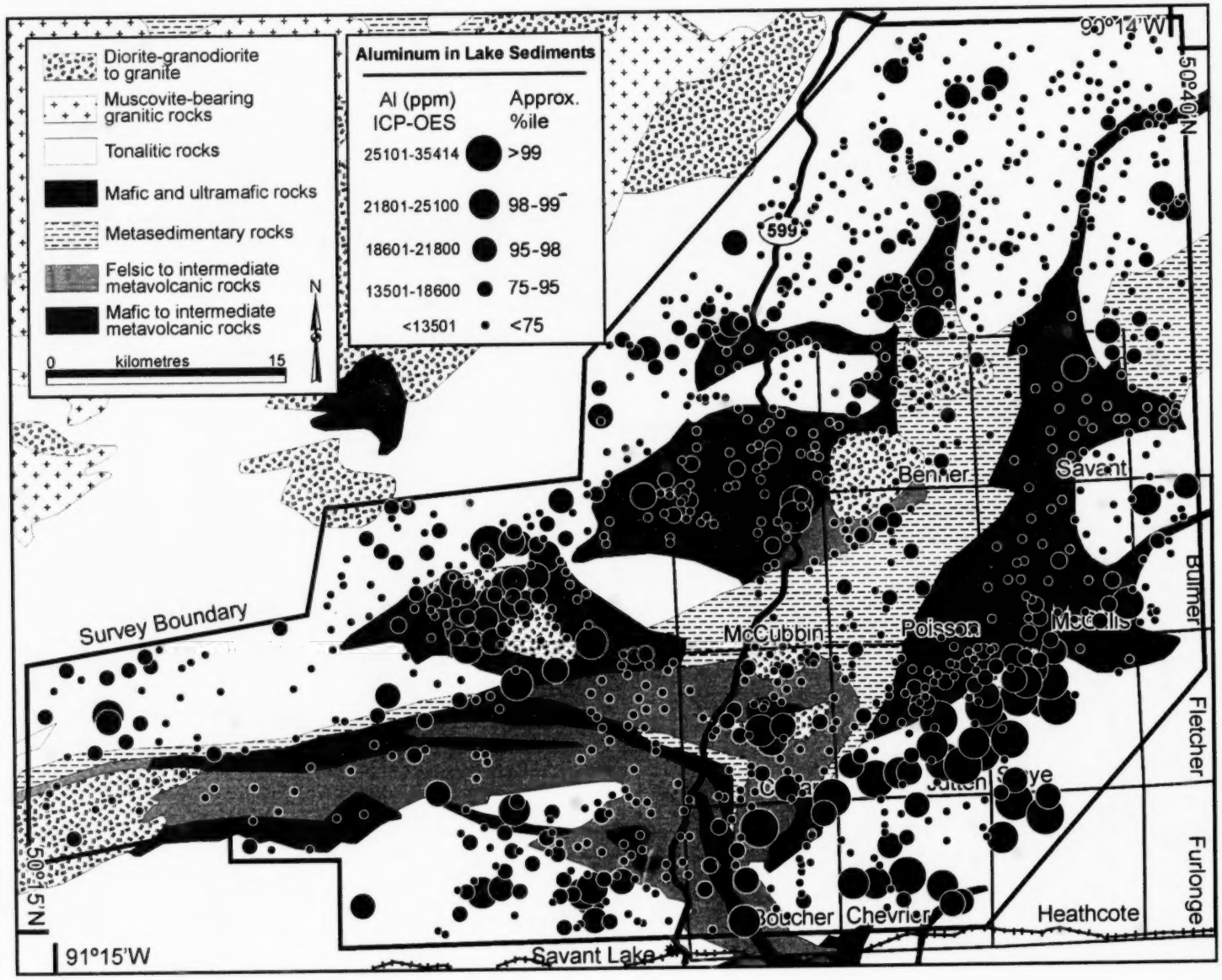
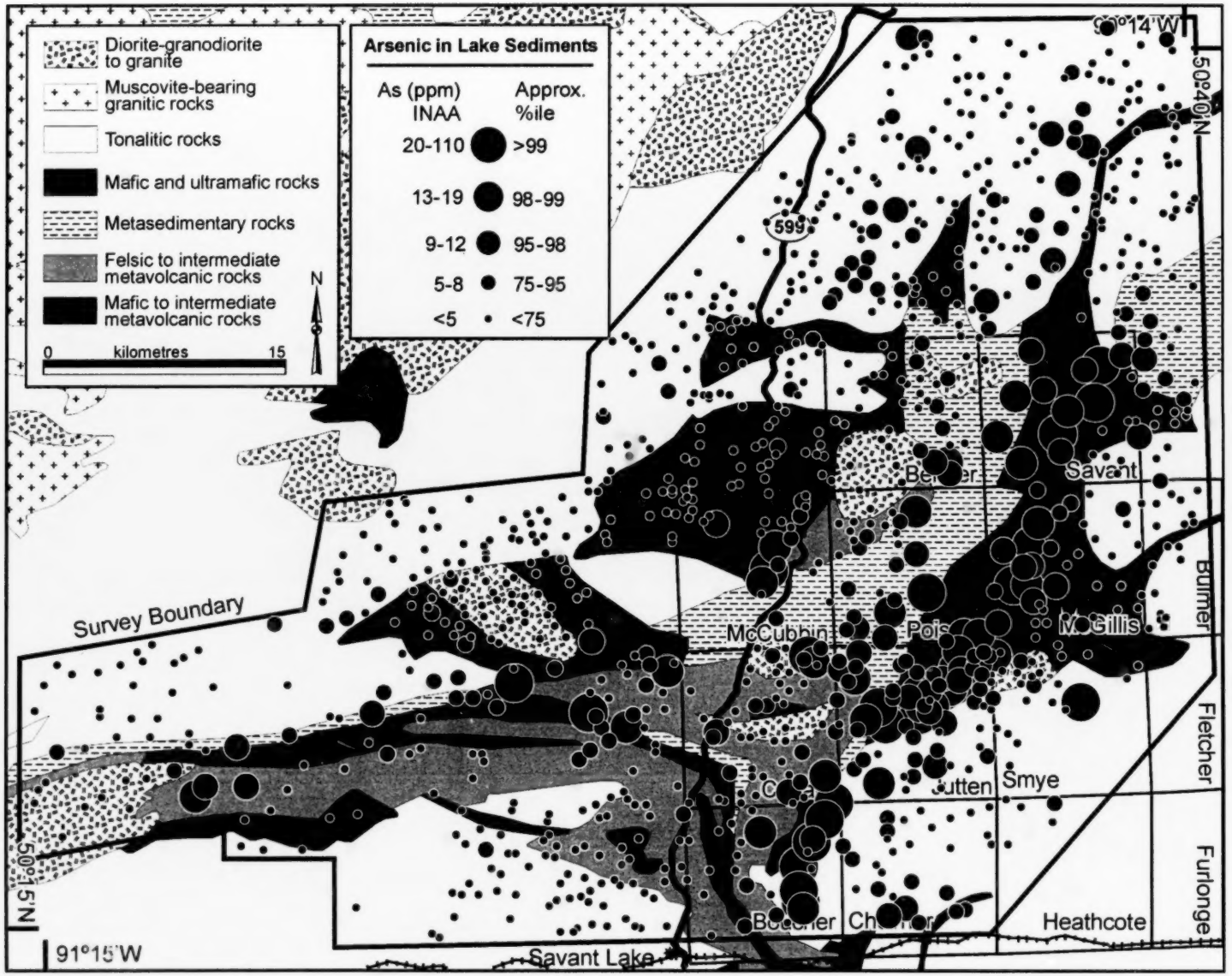
Appendix B

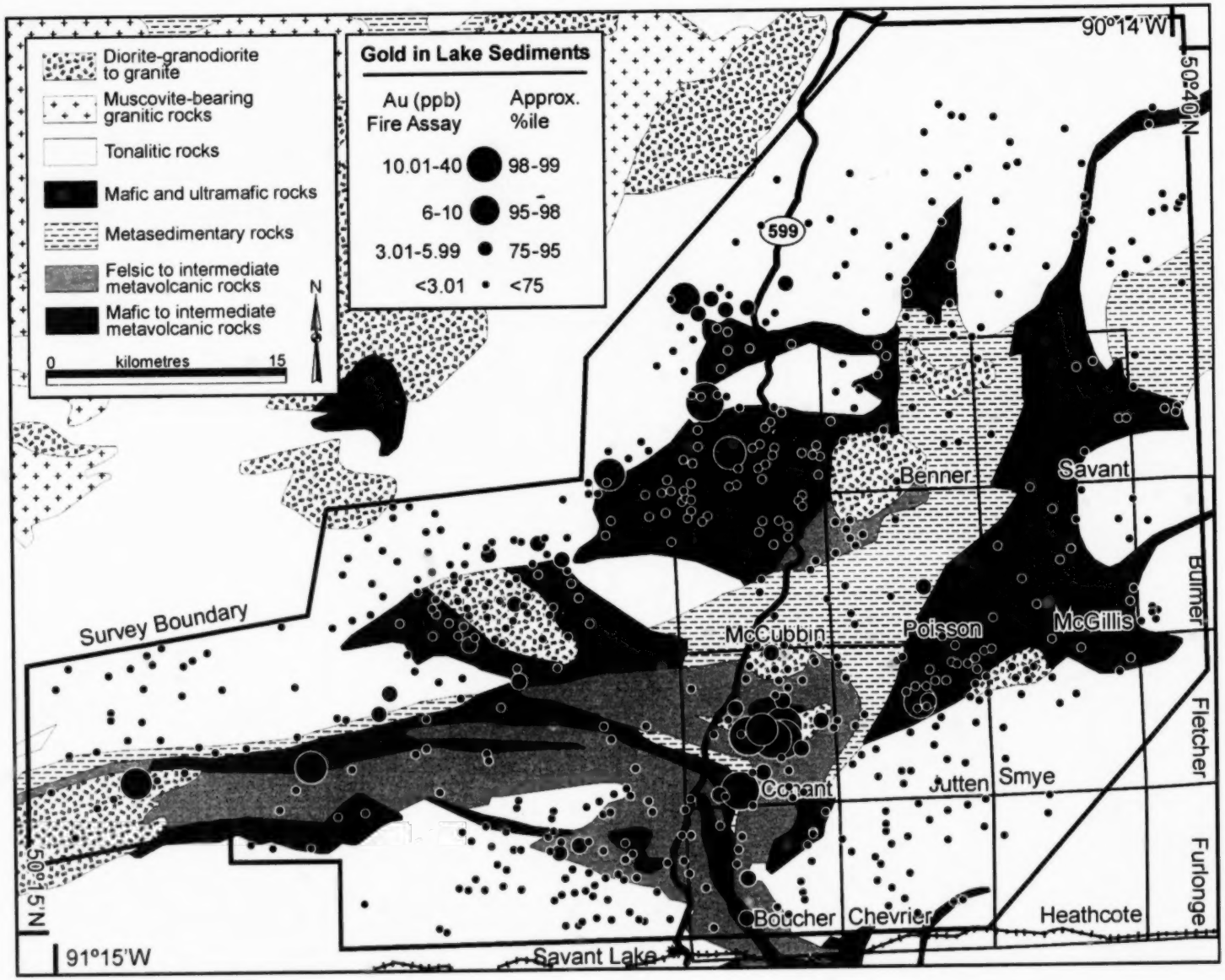
Proportional Dot Maps of Lake Sediment Geochemistry

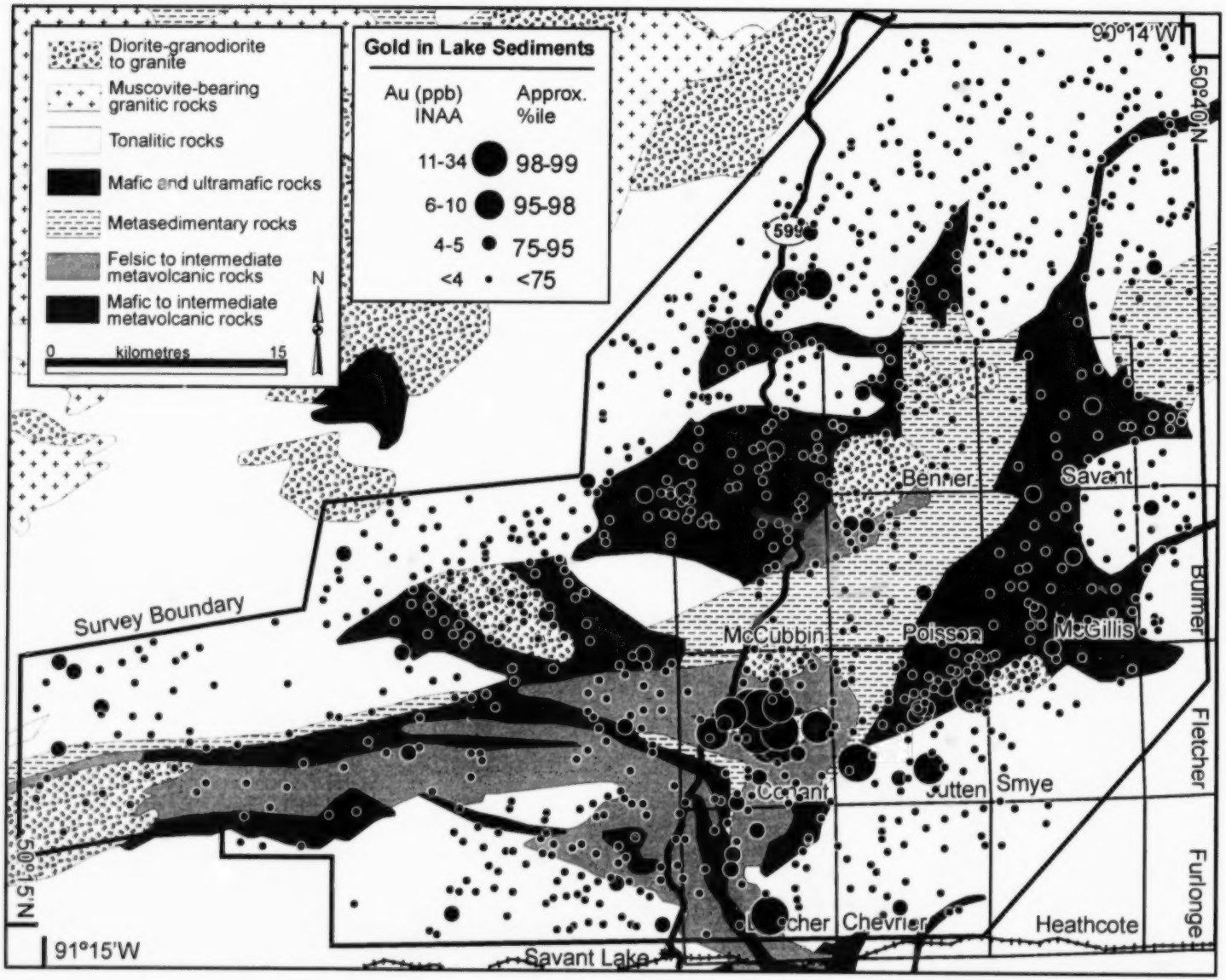
for Ag, Al, As, Au (FA/ICP-MS and INAA), Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Pd, Pt, total REE, Ti, U, V, W and Zn

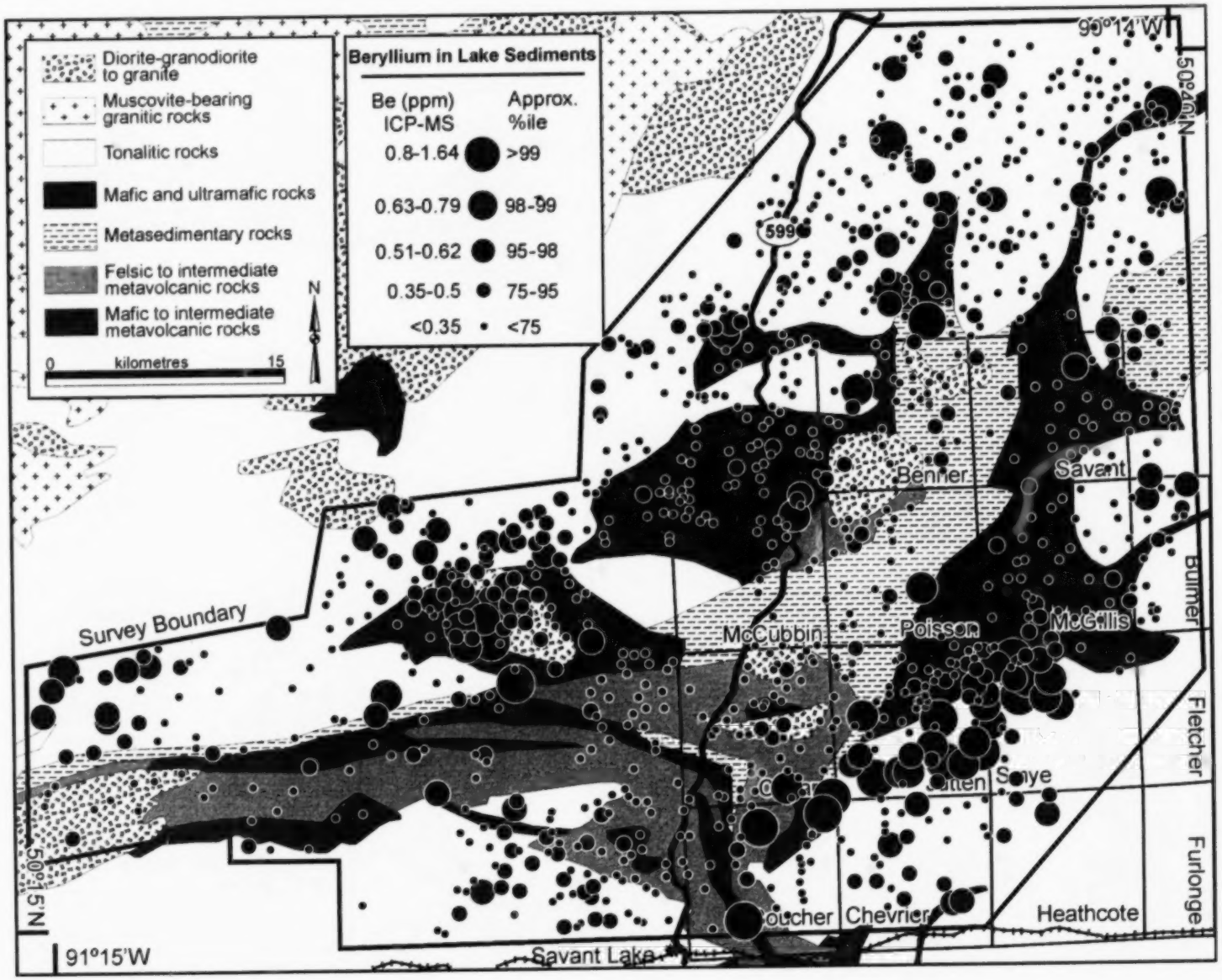

Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Silver in Lake Sediments
Ag (ppm) ICP-MS
Approx. %ile
0.42-0.67 >99
0.30-0.41 98-99
0.22-0.29 95-98
0.14-0.21 75-95
<0.14 <75
90°14'W
50°40'N
59
Survey Boundary
Benier
Savant
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Heathcote
Chevrier
Savant Lake
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Aluminum in Lake Sediments
Al (ppm) ICP-OES
Approx. %ile
25101-35414 >99
21801-25100 98-99
18601-21800 95-98
13501-18600 75-95
<13501 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
Bulmer
Fletcher
Furlonge
Boucher
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W

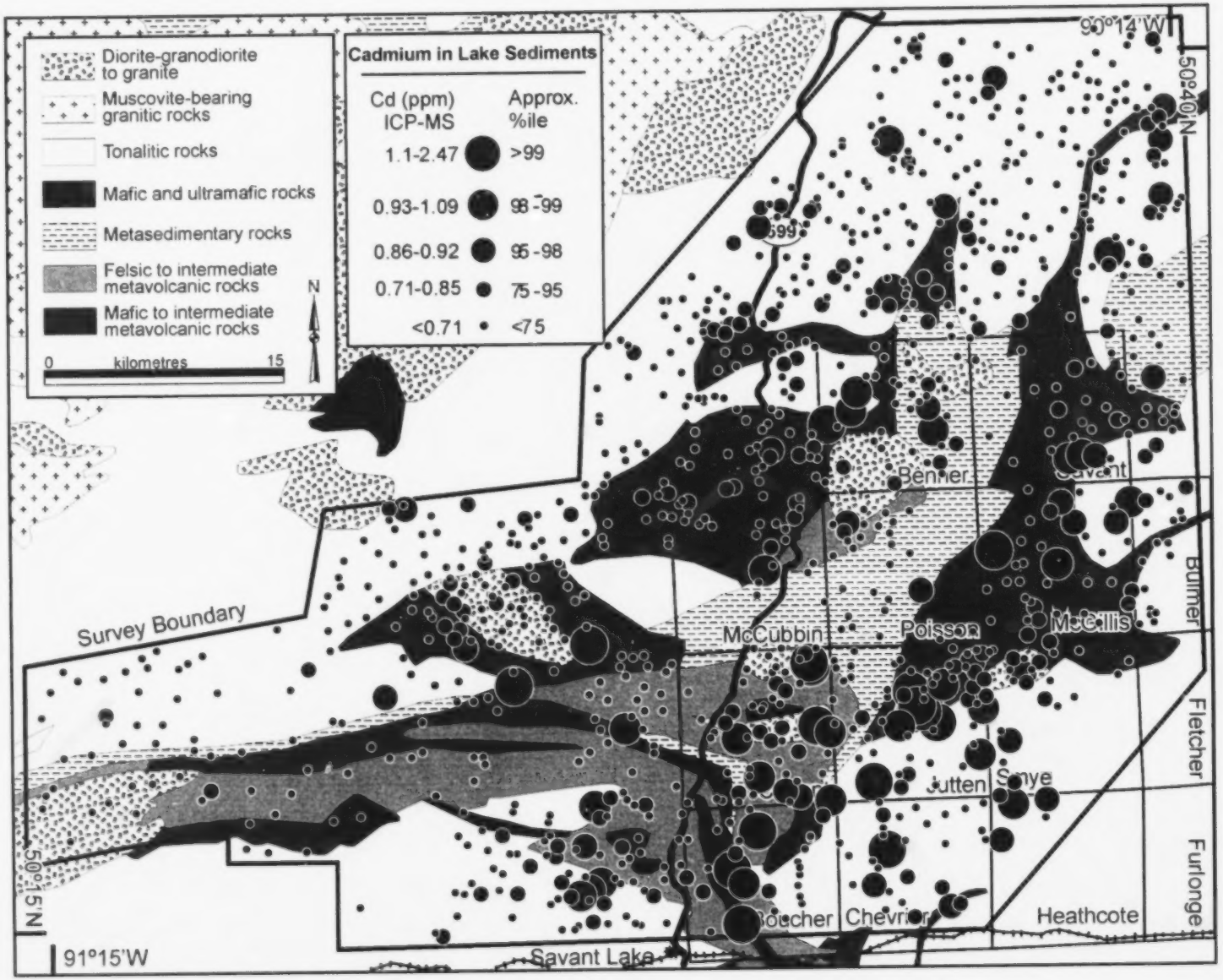

Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Arsenic in Lake Sediments
As (ppm) INAA
Approx. %ile
20-110 >99
13-19 98-99
9-12 95-98
5-8 75-95
<5 <75
Survey Boundary
599
Savant
McCubbin
Pois
McGillis
Smye
Heathcote
Savant Lake
Bulmer
Fletcher
Furlonge
50°40'N
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Gold in Lake Sediments
Au (ppb) Fire Assay
Approx. %ile
10.01-40 98-99
6-10 95-98
3.01-5.99 75-95
<3.01 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
McGillis
Burner
Fletcher
Furlonge
Conant
Jutten
Smye
Boucher
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Gold in Lake Sediments
Au (ppb) INAA
Approx. %ile
11-34 98-99
6-10 95-98
4-5 75-95
<4 <75
90°14'W
50°40'N
599
Bennier
Savant
Survey Boundary
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Heathcote
50°15'N
91°15'W
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Beryllium in Lake Sediments
Be (ppm) ICP-MS
Approx. %ile
0.8-1.64 >99
0.63-0.79 98-99
0.51-0.62 95-98
0.35-0.5 75-95
<0.35 <75
90°14'W
50°40'N
599
Benner
Savant
Bulmer
Survey Boundary
McCubbin
Poisson
McGillis
Fletcher
Furlonge
Heathcote
Chevrier
Savant Lake
50°15'N
91°15'W

Calcium in Lake Sediments
Ca (ppm) ICP-OES
Approx. %ile
20501-89413 >99
17301-20500 98 -99
14601-17300 95-98
12101-14600 75 -95
<12101 <75
Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0 kilometres 15
50°40'N
90°W
91°15'W
50°15'N
Survey Boundary
Savant Lake
Bulmer
Fletcher
Furlonge
Heathcote
Savant
Benner
Polsson
McCubbin
Smye
Jutten
Chevrier
Boucher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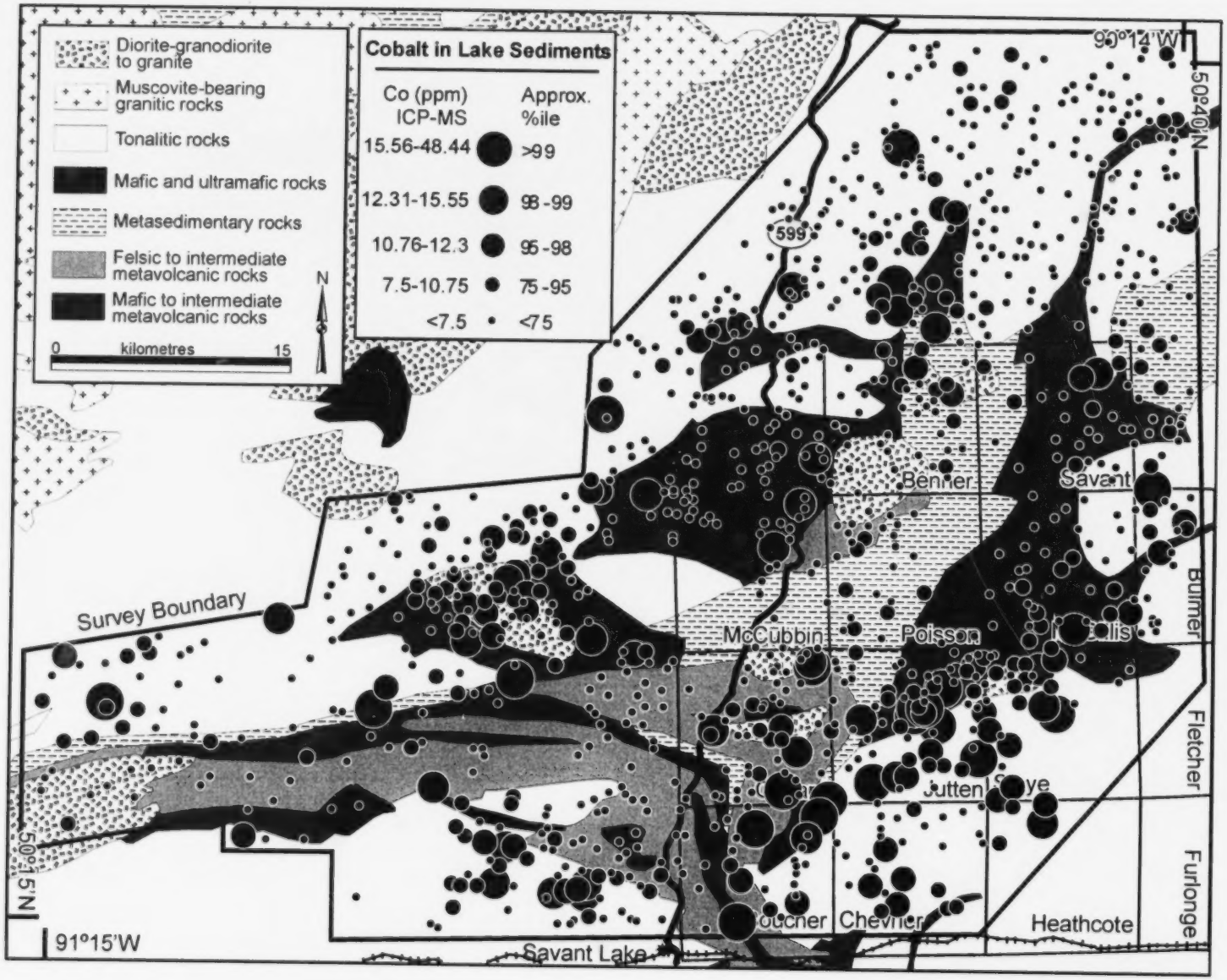
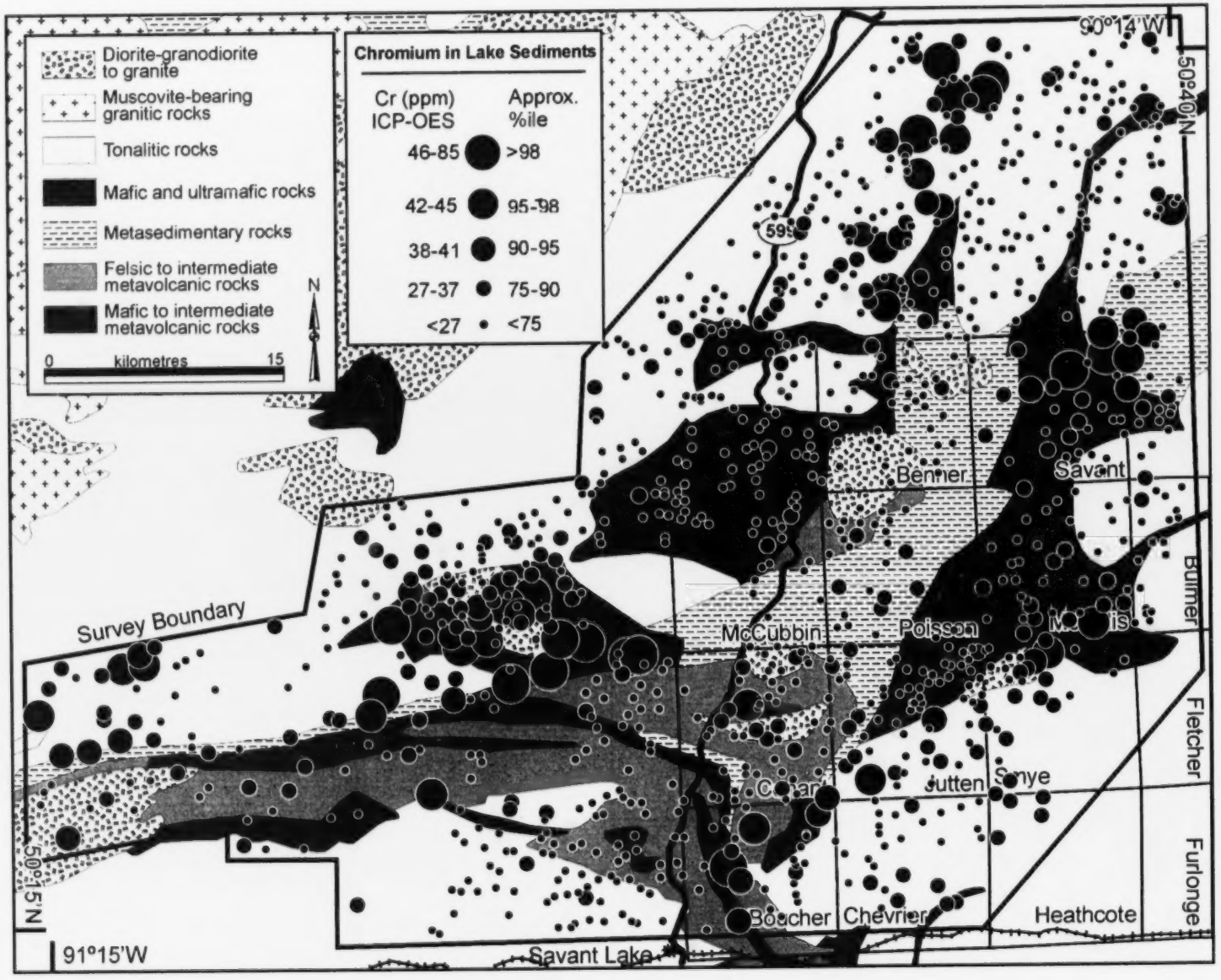
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Cadmium in Lake Sediments
Cd (ppm) ICP-MS
Approx. %ile
1.1-2.47 >99
0.93-1.09 98-99
0.86-0.92 95-98
0.71-0.85 75-95
<0.71 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
McCallis
Bulmer
Fletcher
Jutten
Furlonge
Heathcote
50°15'N
91°15'W
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Cobalt in Lake Sediments
Co (ppm) ICP-MS
Approx. %ile
15.56-48.44 >99
12.31-15.55 98-99
10.76-12.3 95-98
7.5-10.75 75-95
<7.5 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
Bulmer
Fletcher
Furlonge
Heathcote
50°15'N
91°15'W
Savant Lake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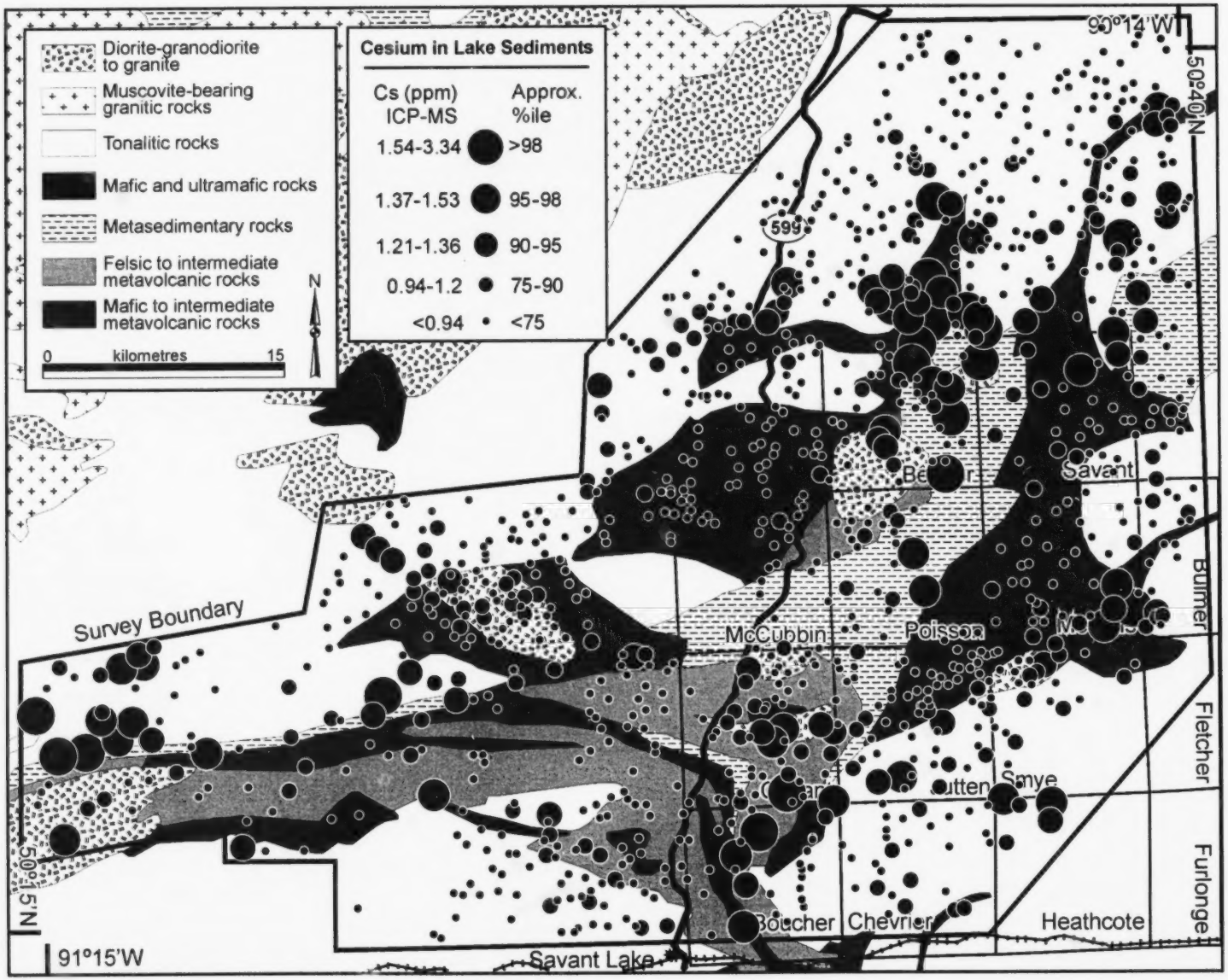
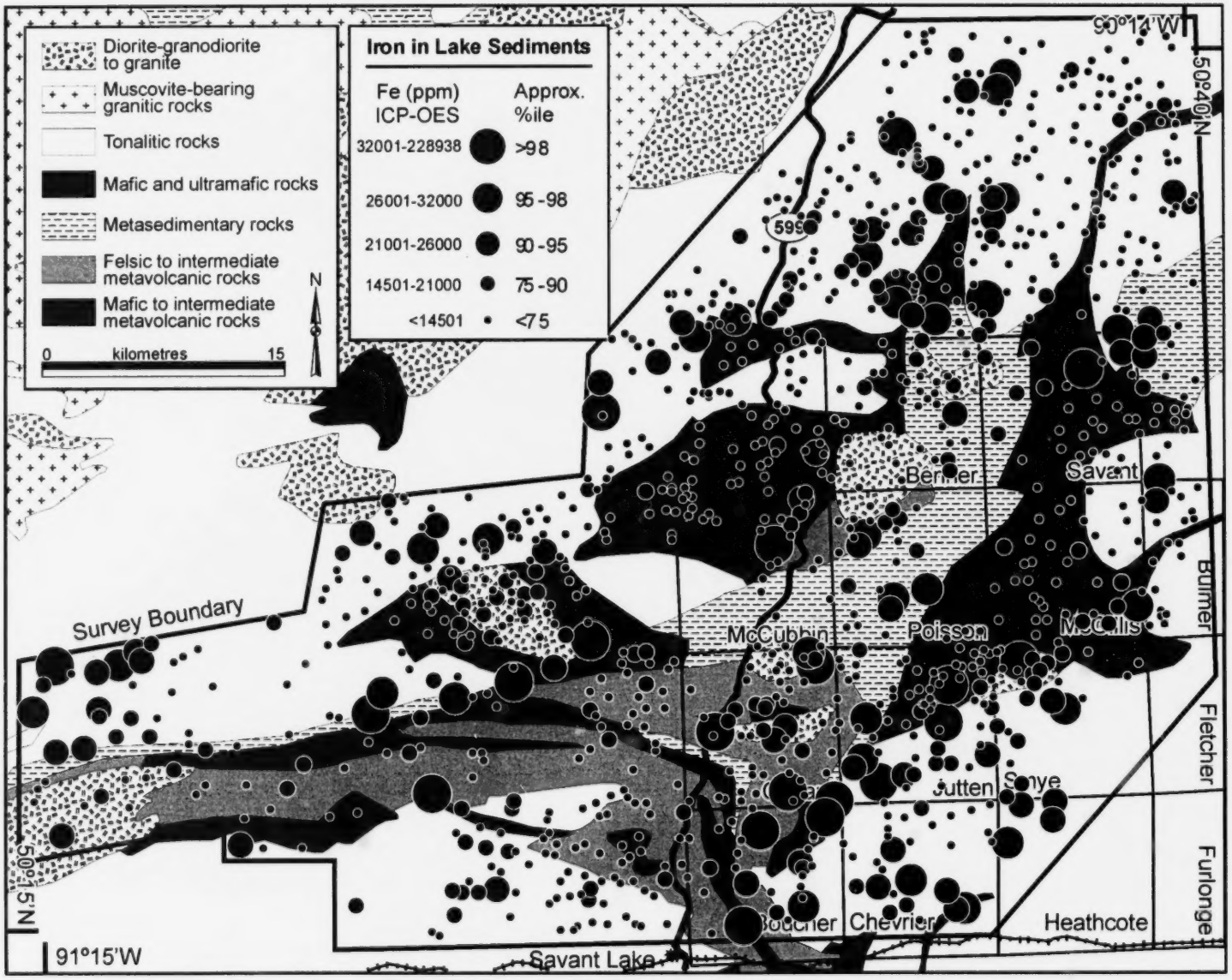
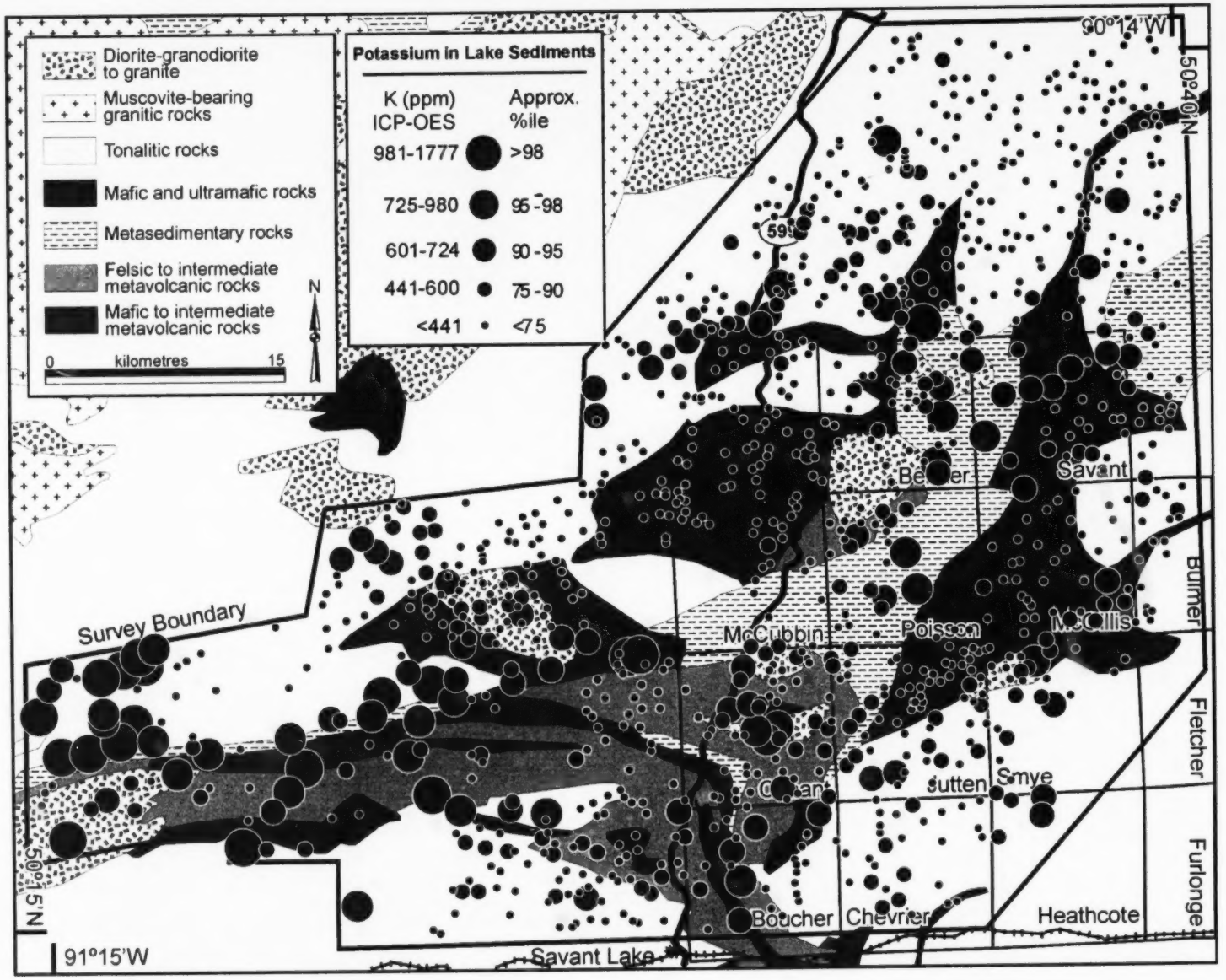
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Chromium in Lake Sediments
Cr (ppm) ICP-OES
Approx. %ile
46-85 >98
42-45 95-98
38-41 90-95
27-37 75-90
<27 <75
90°14'W
50°40'N
59
Benner
Savant
Bulmer
Survey Boundary
McCubbin
Poisson
Fletcher
Sutton
Smye
Furlonge
50°15'N
Boucher
Chevrier
Heathcote
91°15'W
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Cesium in Lake Sediments
Cs (ppm) ICP-MS
Approx. %ile
1.54-3.34 >98
1.37-1.53 95-98
1.21-1.36 90-95
0.94-1.2 75-90
<0.94 <75
90°14'W
50°40'N
599
Savant
Survey Boundary
McCubbin
Poisson
Fletcher
Furlonge
Boucher
Chevrier
Heathcote
Savant Lake
50°5'N
91°15'W

Copper in Lake Sediments
Cu (ppm) ICP-OES
Approx. %ile
91-273 >98
69-90 95-98
61-68 90-95
41-60 75-90
<41 <75
Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0 kilometres 15
50°40'N
90°14'W
599
Bulmer
Fletcher
Furlonge
Savant
Benner
McCubbin
Poisson
Smye
Jutten
Heathcote
Chevrier
Survey Boundary
Savant Lake
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Iron in Lake Sediments
Fe (ppm) ICP-OES
Approx. %ile
32001-228938 >98
26001-32000 95-98
21001-26000 90-95
14501-21000 75-90
<14501 <75
90°12'W
50°40'N
599
Survey Boundary
Bernier
Savant
Bulmer
McCubbin
Poisson
McCallis
Fletcher
Jutten
Soye
Furlonge
Boucher
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W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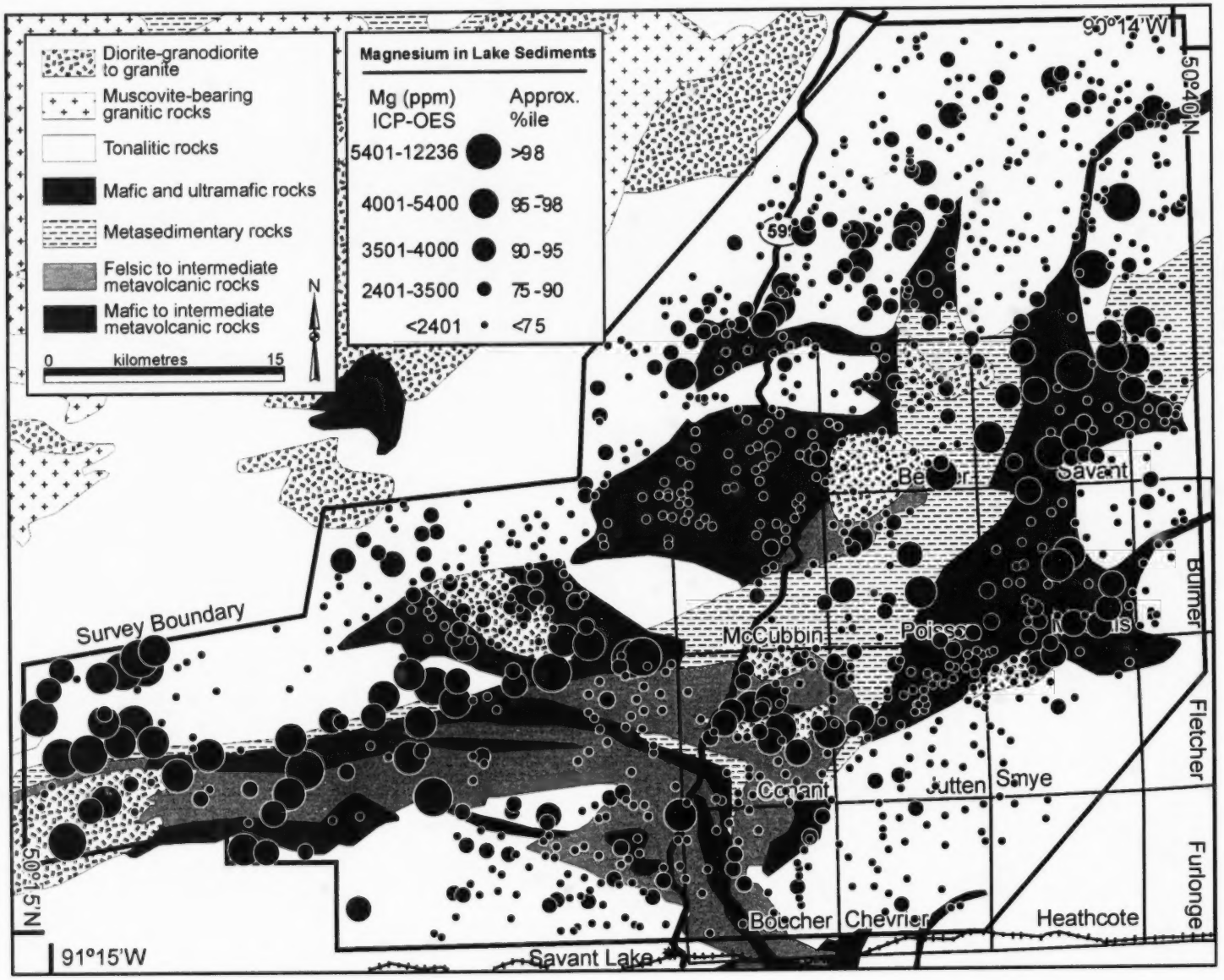
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Potassium in Lake Sediments
K (ppm) ICP-OES
Approx. %ile
981-1777 >98
725-980 95-98
601-724 90-95
441-600 75-90
<441 <75
90°14'W
50°40'N
59
Survey Boundary
Savant
Poisson
McCubbin
Fletcher
Furlonge
Heathcote
Boucher
Chevrier
Savant Lake
50°15'N
91°15'W

Lithium in Lake Sediments
Li (ppm) ICP-MS
Approx. %ile
17.21-21.92 >99
14.258-17.2 98-99
10.99-14.24 95-98
6.43-10.98 75-95
<6.43 <75
Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0 kilometres 15
50°40'N
90°12'W
Bulmer
Fletcher
Furlonge
Savant
Benoist
Poisson
Smye
Jutten
Heathcote
McCubbin
Cavan
Boucher
Chevrier
Savant Lake
Survey Boundary
50°15'N
91°15'W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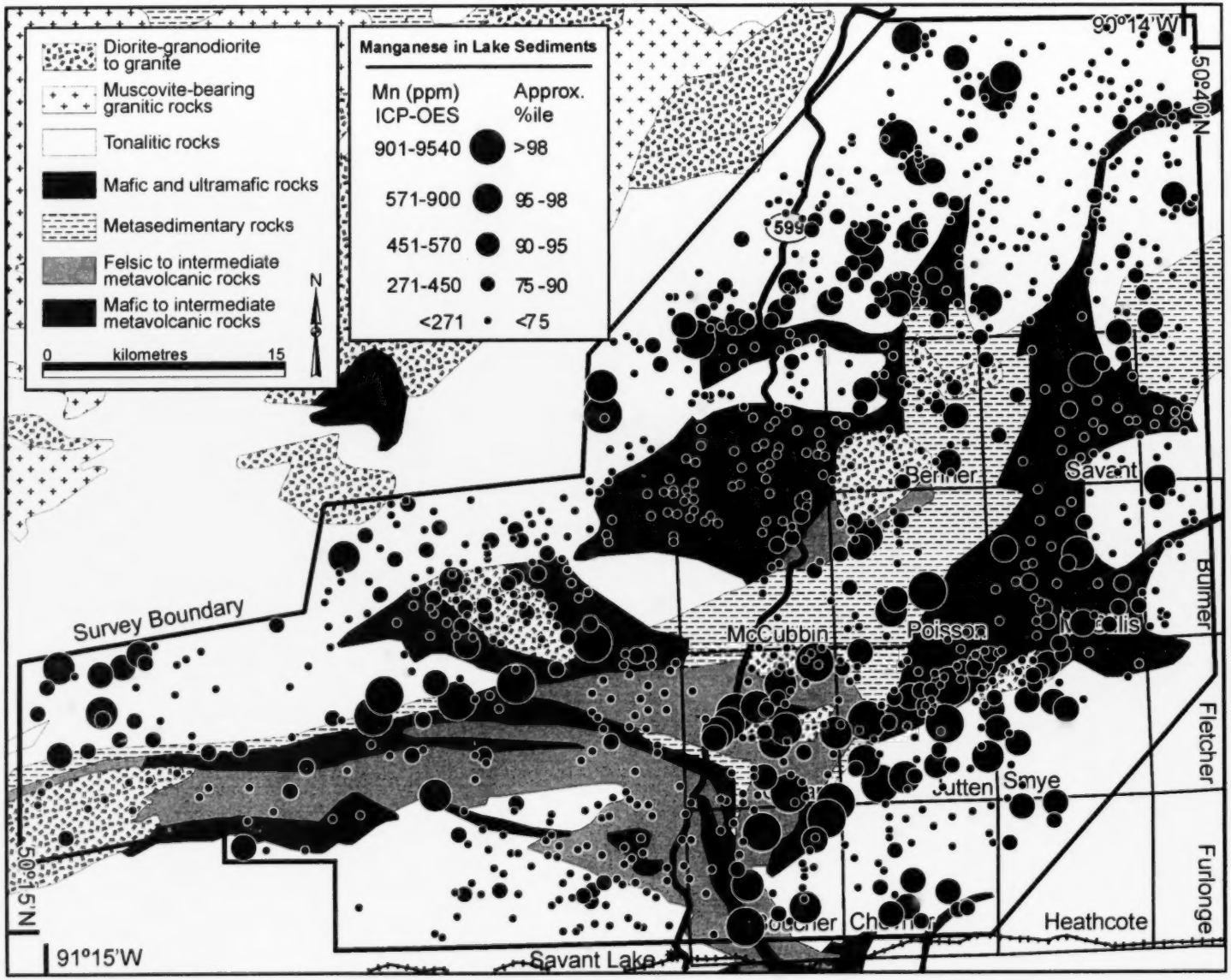
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Magnesium in Lake Sediments
Mg (ppm) ICP-OES
Approx. %ile
5401-12236 >98
4001-5400 95-98
3501-4000 90-95
2401-3500 75-90
<2401 <75
90°14'W
50°40'N
Survey Boundary
McCubbin
Savant
Burmer
Fletcher
Furlonge
Smye
Heathcote
Boucher
Chevrier
Savant Lake
50°15'N
91°15'W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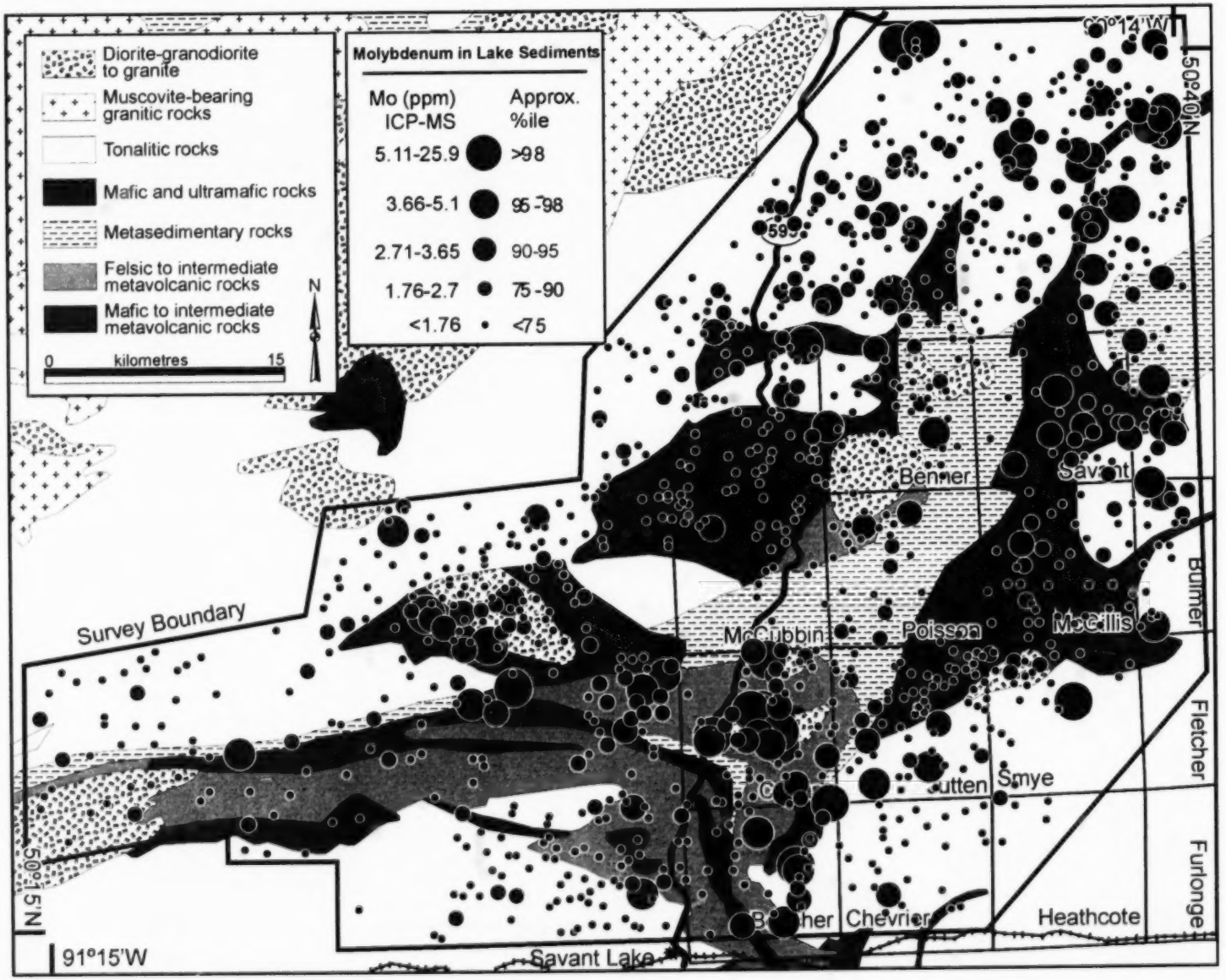
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Manganese in Lake Sediments
Mn (ppm) ICP-OES
Approx. %ile
901-9540 >98
571-900 95-98
451-570 90-95
271-450 75-90
<271 <75
90°14'W
50°40'N
599
Berner
Savant
Survey Boundary
McCubbin
Poisson
Bulmer
Fletcher
Jutten
Smye
Furlonge
Heathcote
50°15'N
91°15'W
Savant Lake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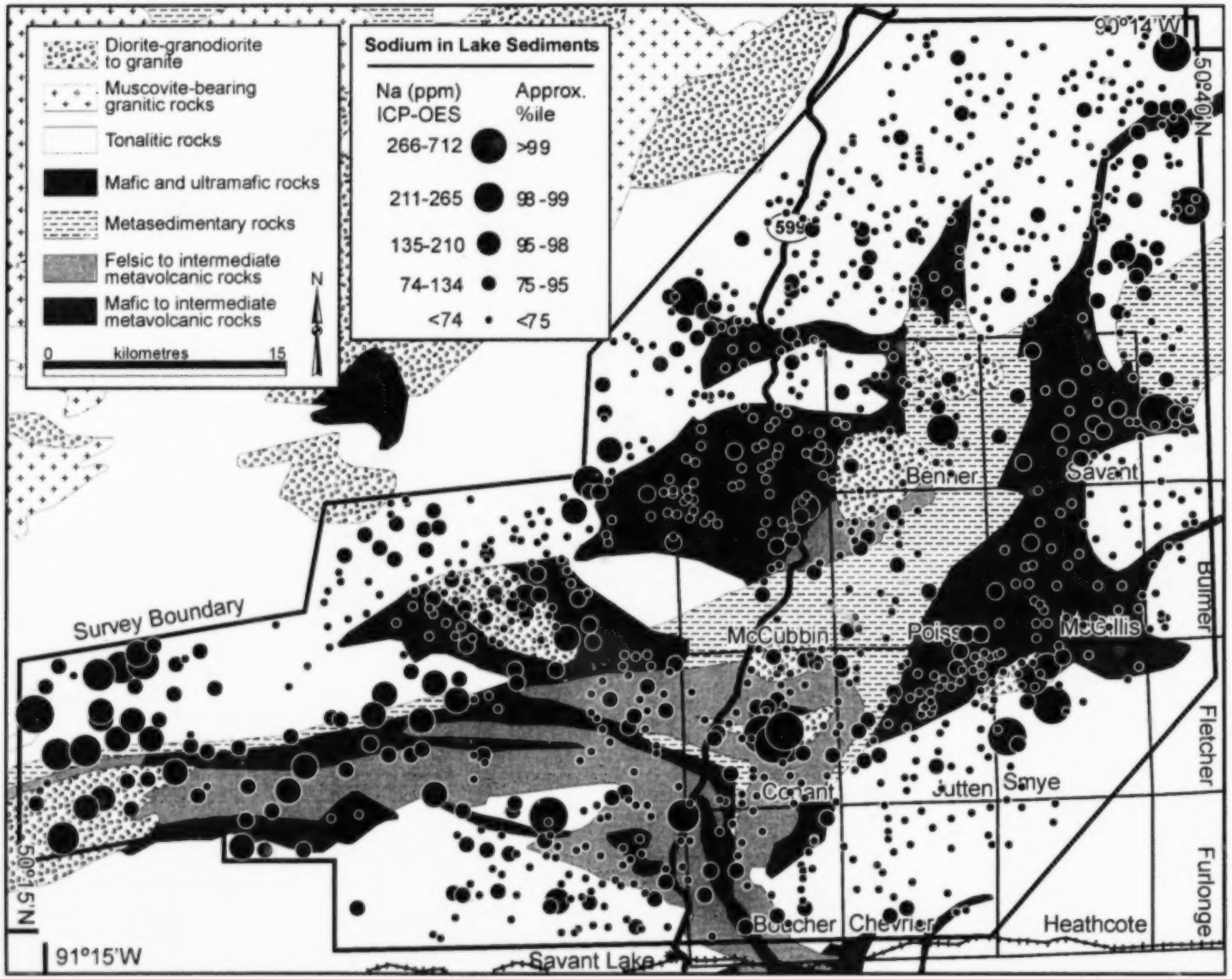
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Molybdenum in Lake Sediments
Mo (ppm) ICP-MS
Approx. %ile
5.11-25.9 >98
3.66-5.1 95-98
2.71-3.65 90-95
1.76-2.7 75-90
<1.76 <75
91°14'W
50°40'N
50°15'N
91°15'W
Survey Boundary
Benner
Savant
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Chevrier
Heathcote
Savant Lake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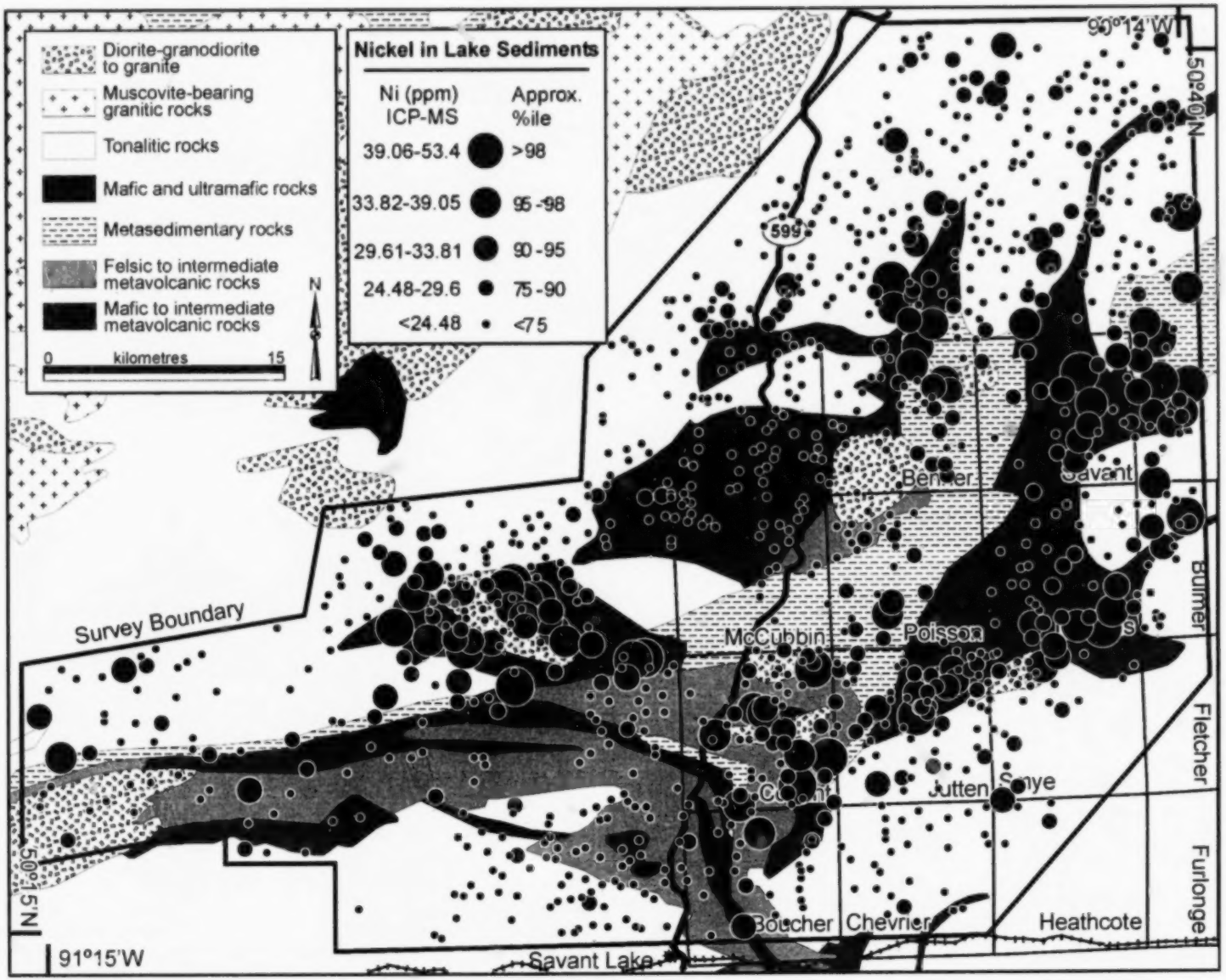
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Sodium in Lake Sediments
Na (ppm) ICP-OES
Approx. %ile
266-712 >99
211-265 98-99
135-210 95-98
74-134 75-95
<74 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poiss
McCallis
Bulmer
Fletcher
Conant
Jutten
Smye
Furlonge
50°15'N
Boucher
Chevrier
Heathcote
91°15'W
Savant Lake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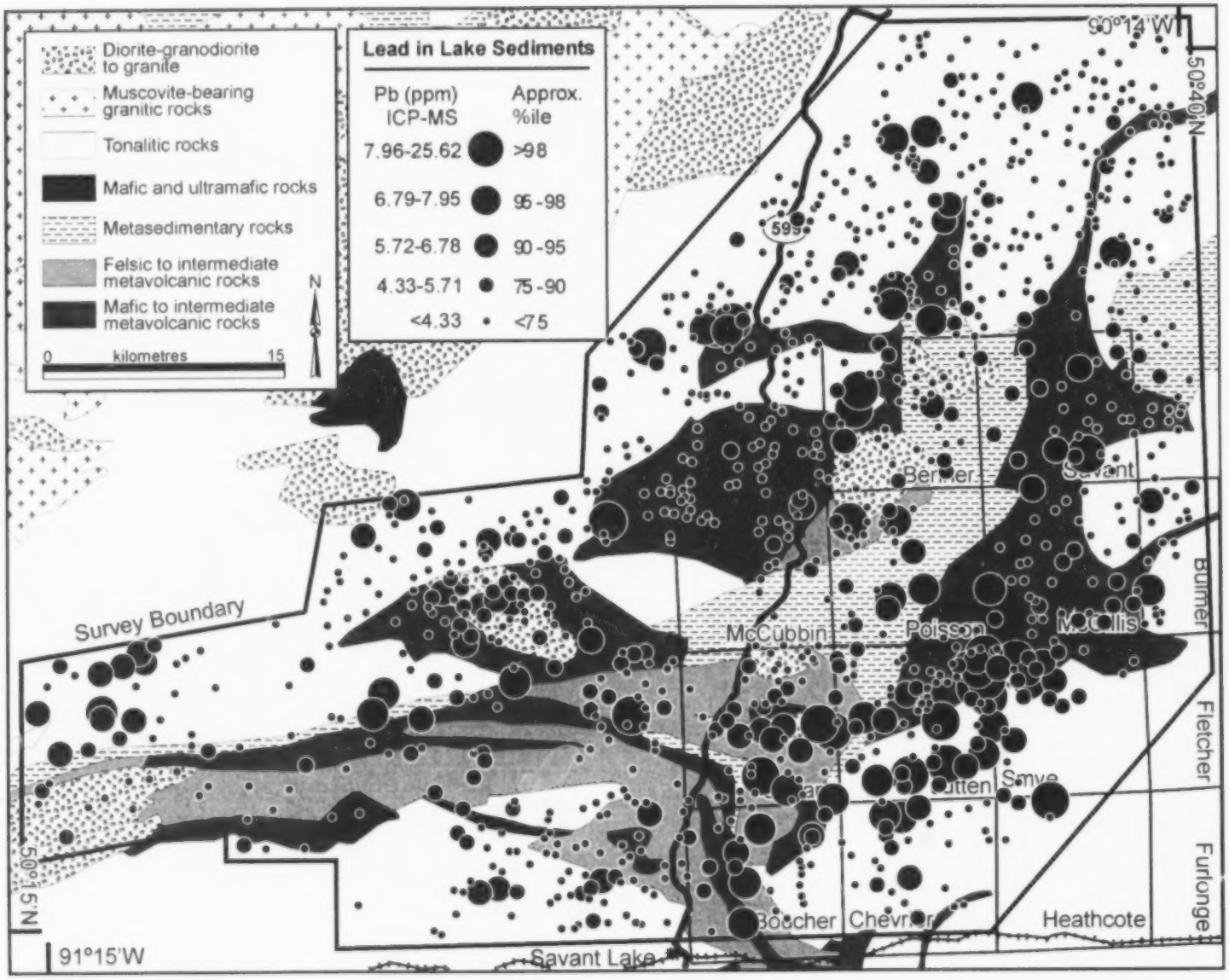
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Nickel in Lake Sediments
Ni (ppm) ICP-MS
Approx. %ile
39.06-53.4 >98
33.82-39.05 95-98
29.61-33.81 90-95
24.48-29.6 75-90
<24.48 <75
90°14'W
50°40'N
599
Survey Boundary
McCubbin
Poisson
Jutten
Boucher
Chevrier
Heathcote
Fletcher
Furlonge
50°15'N
91°15'W
Savant Lake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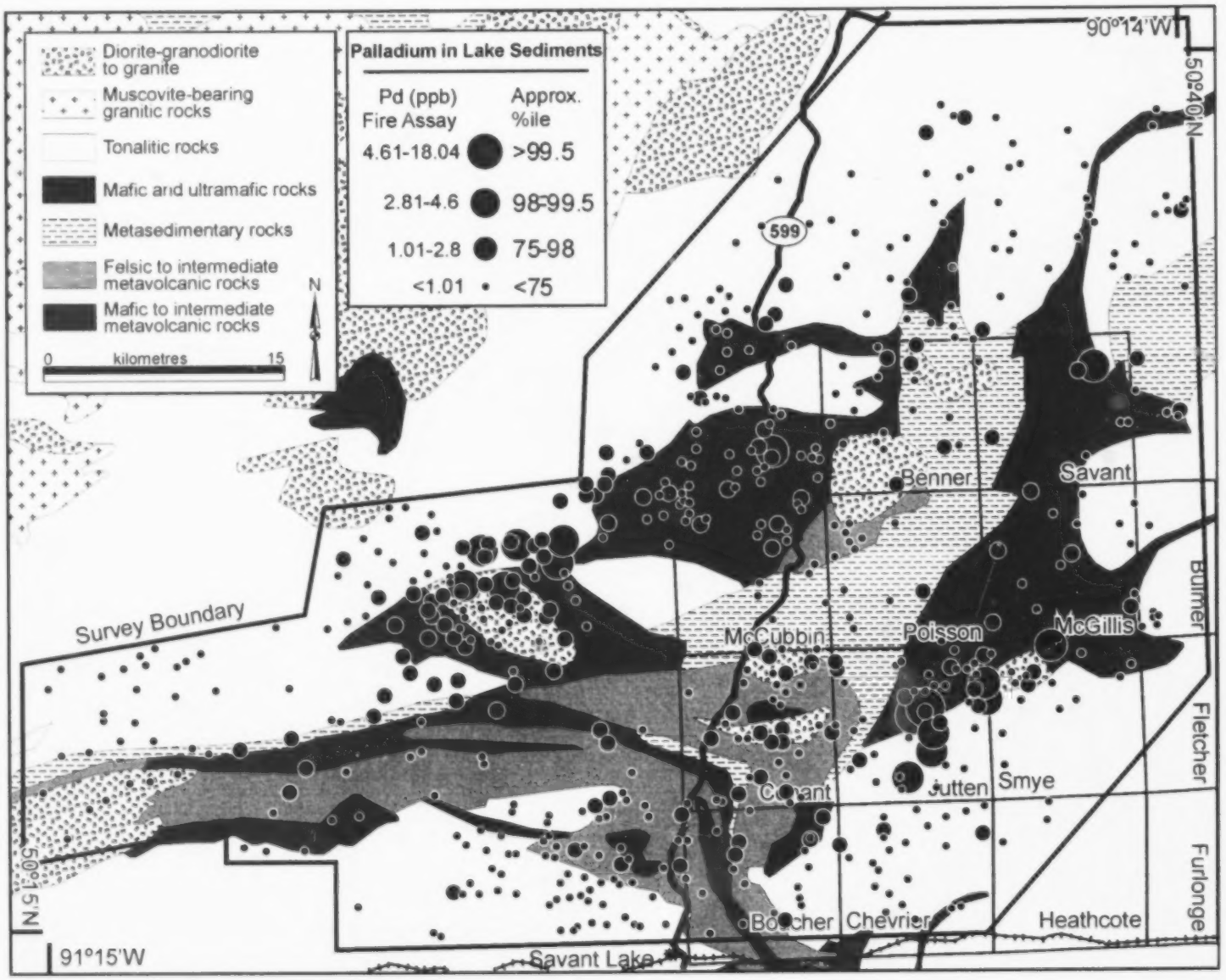
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Lead in Lake Sediments
Pb (ppm) ICP-MS
Approx. %ile
7.96-25.62 >98
6.79-7.95 95-98
5.72-6.78 90-95
4.33-5.71 75-90
<4.33 <75
90°14'W
50°40'N
59
Survey Boundary
McCubbin
Poisson
Fletcher
Furlonge
Heathcote
50°15'N
91°15'W
Savant Lake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Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Palladium in Lake Sediments
Pd (ppb) Fire Assay
Approx. %ile
4.61-18.04 >99.5
2.81-4.6 98-99.5
1.01-2.8 75-98
<1.01 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Chevrier
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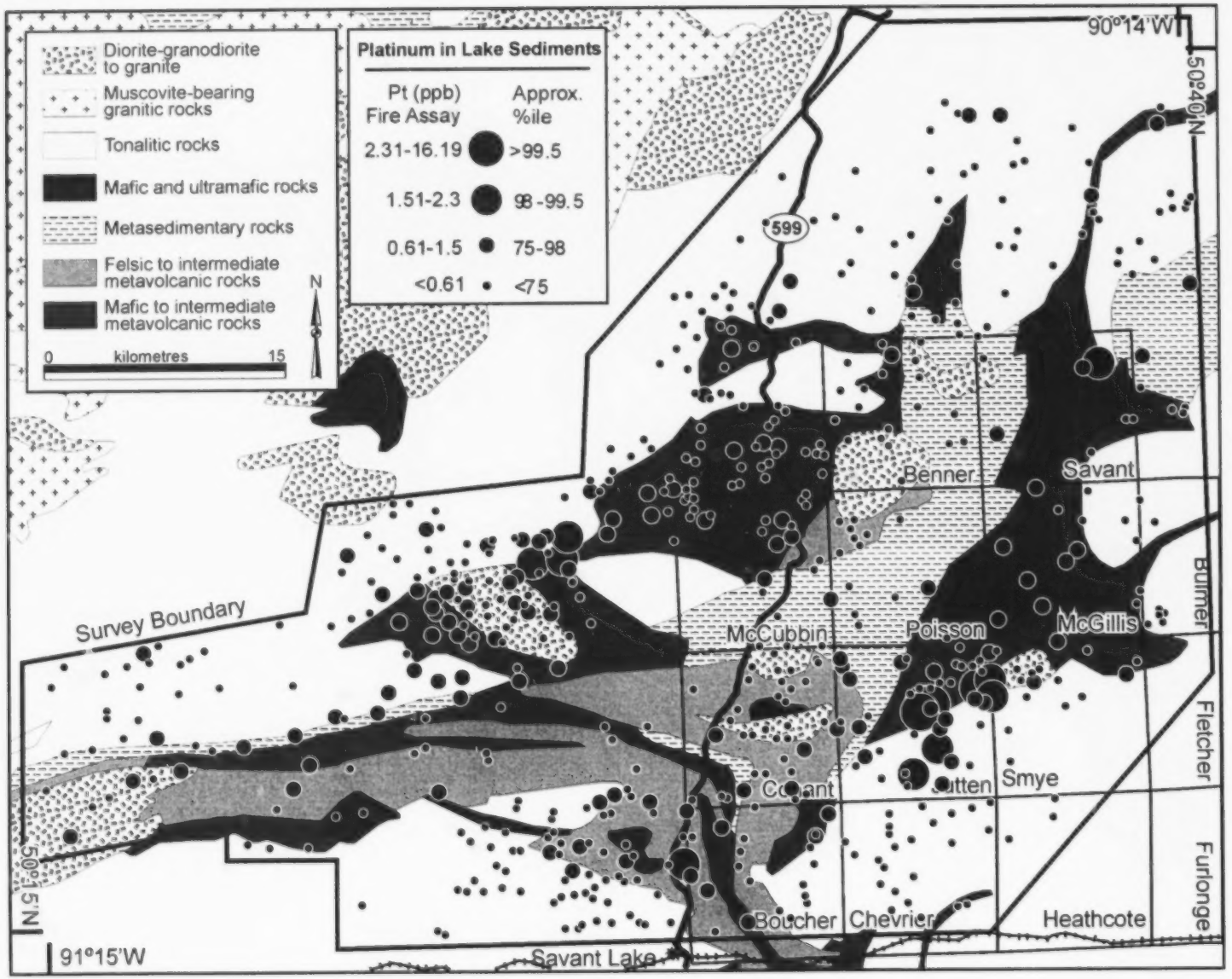
50°15'N
91°15'W
Savant Lake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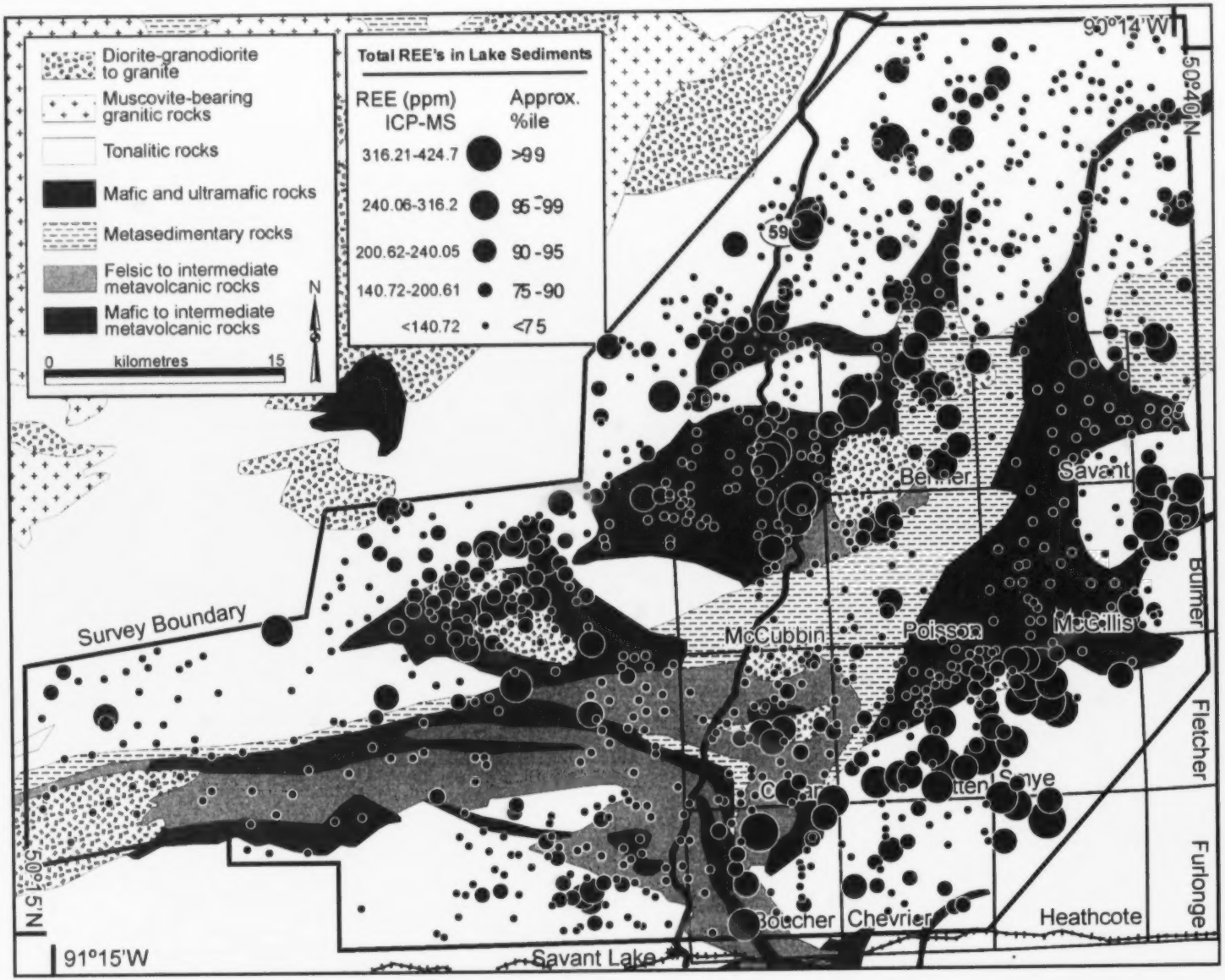
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Platinum in Lake Sediments
Pt (ppb) Fire Assay
Approx. %ile
2.31-16.19 >99.5
1.51-2.3 98-99.5
0.61-1.5 75-98
<0.61 <75
90°14'W
50°40'N
599
Benner
Savant
Survey Boundary
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Boucher
Chevrier
Heathcote
50°15'N
91°15'W
Savant Lake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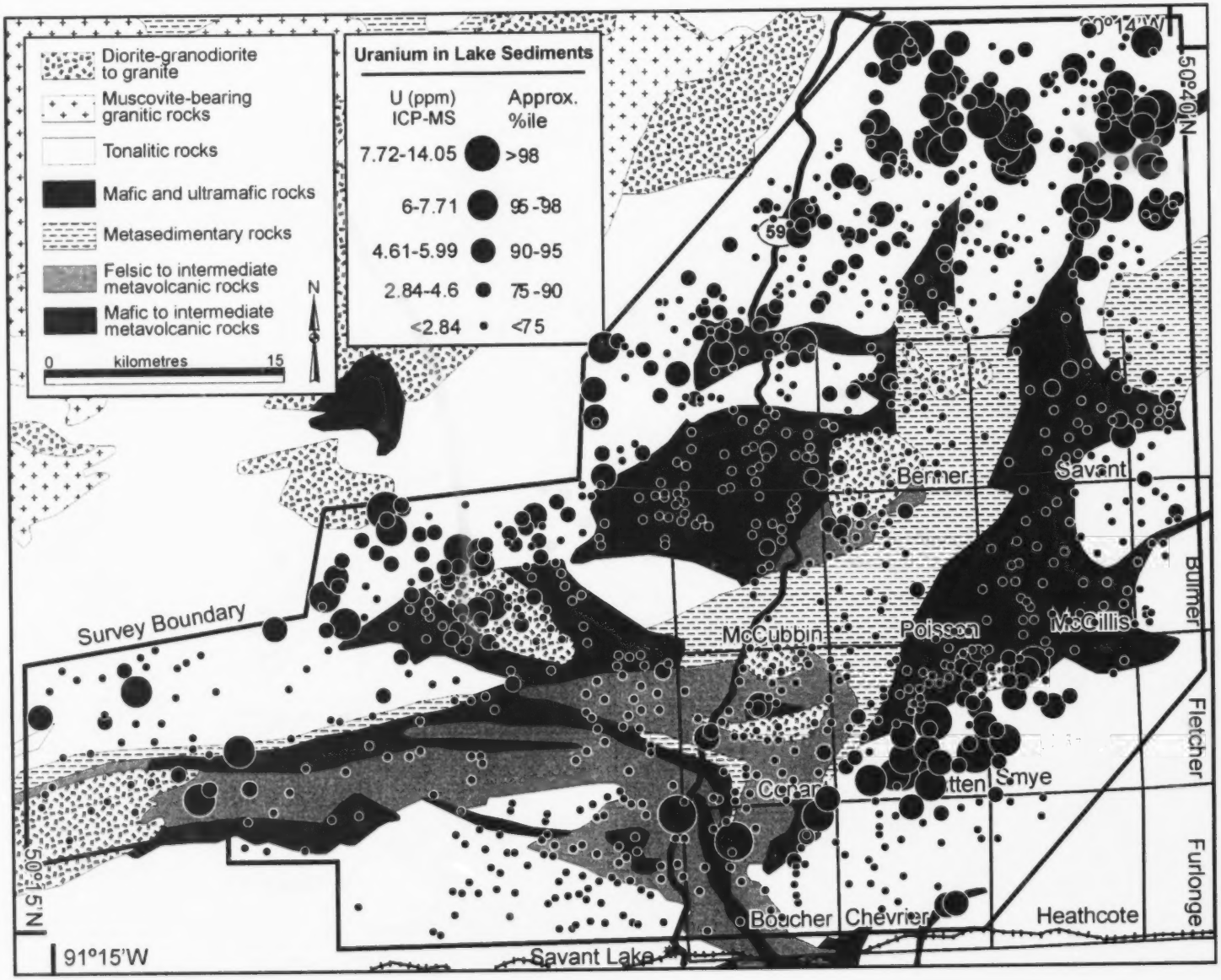
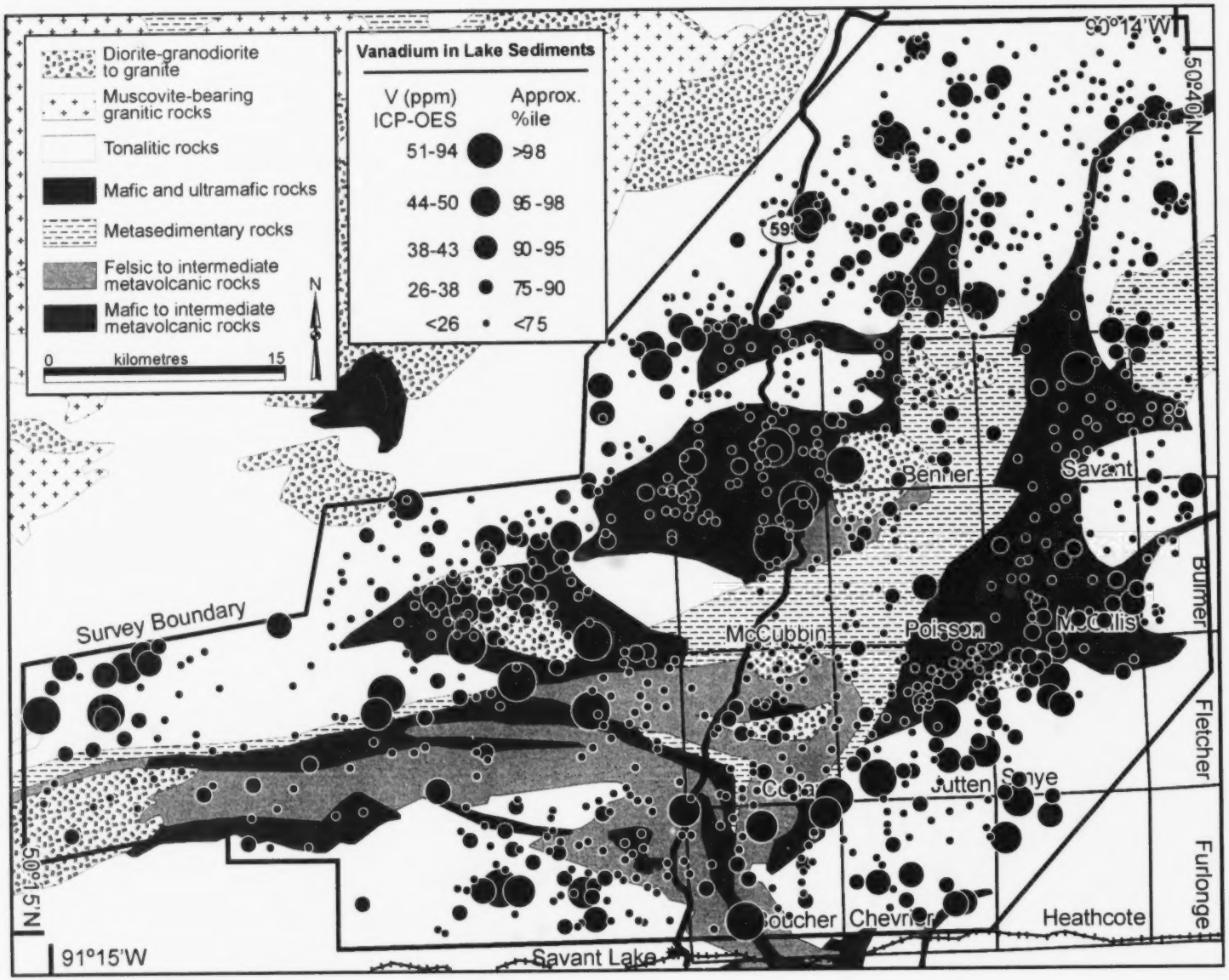
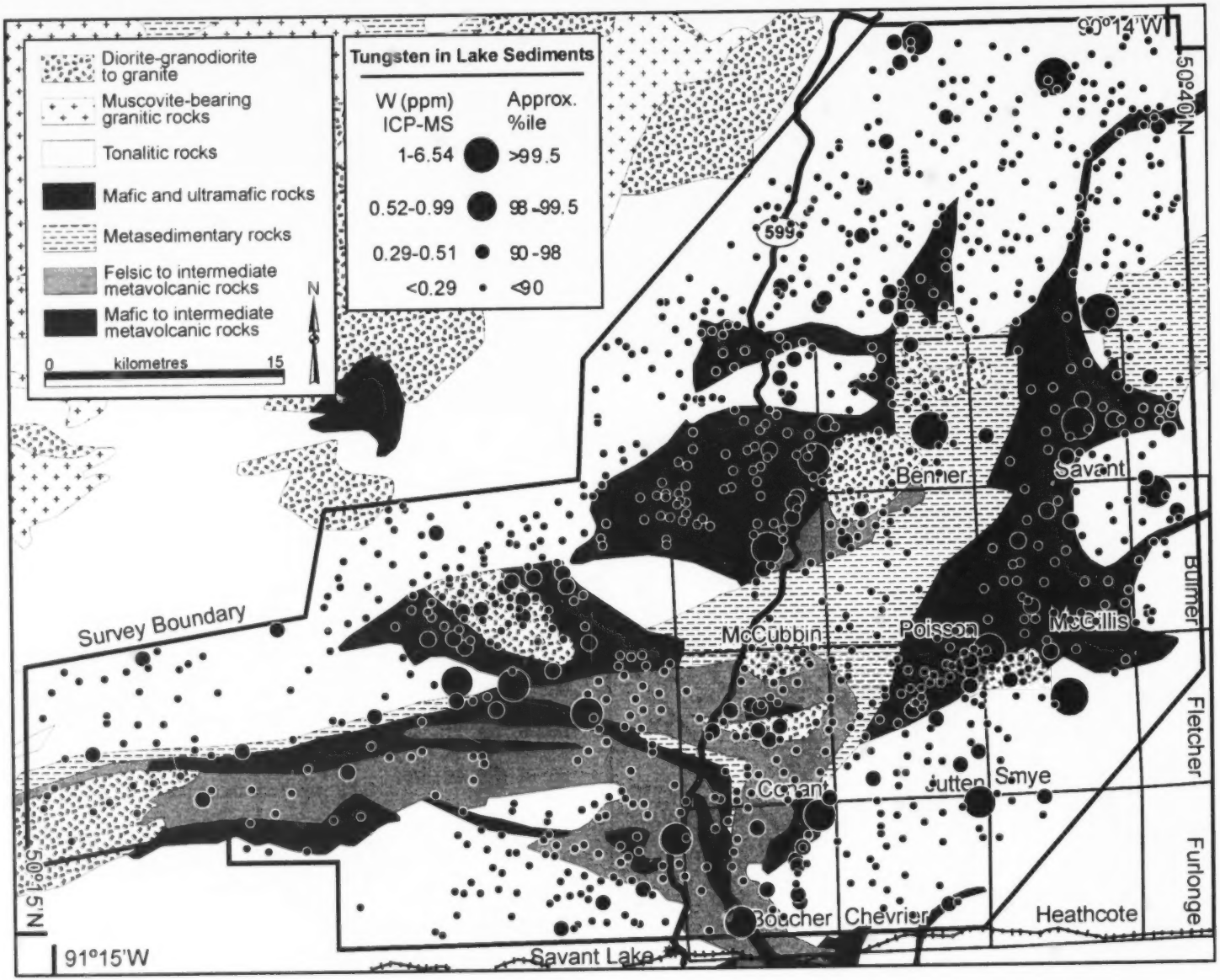
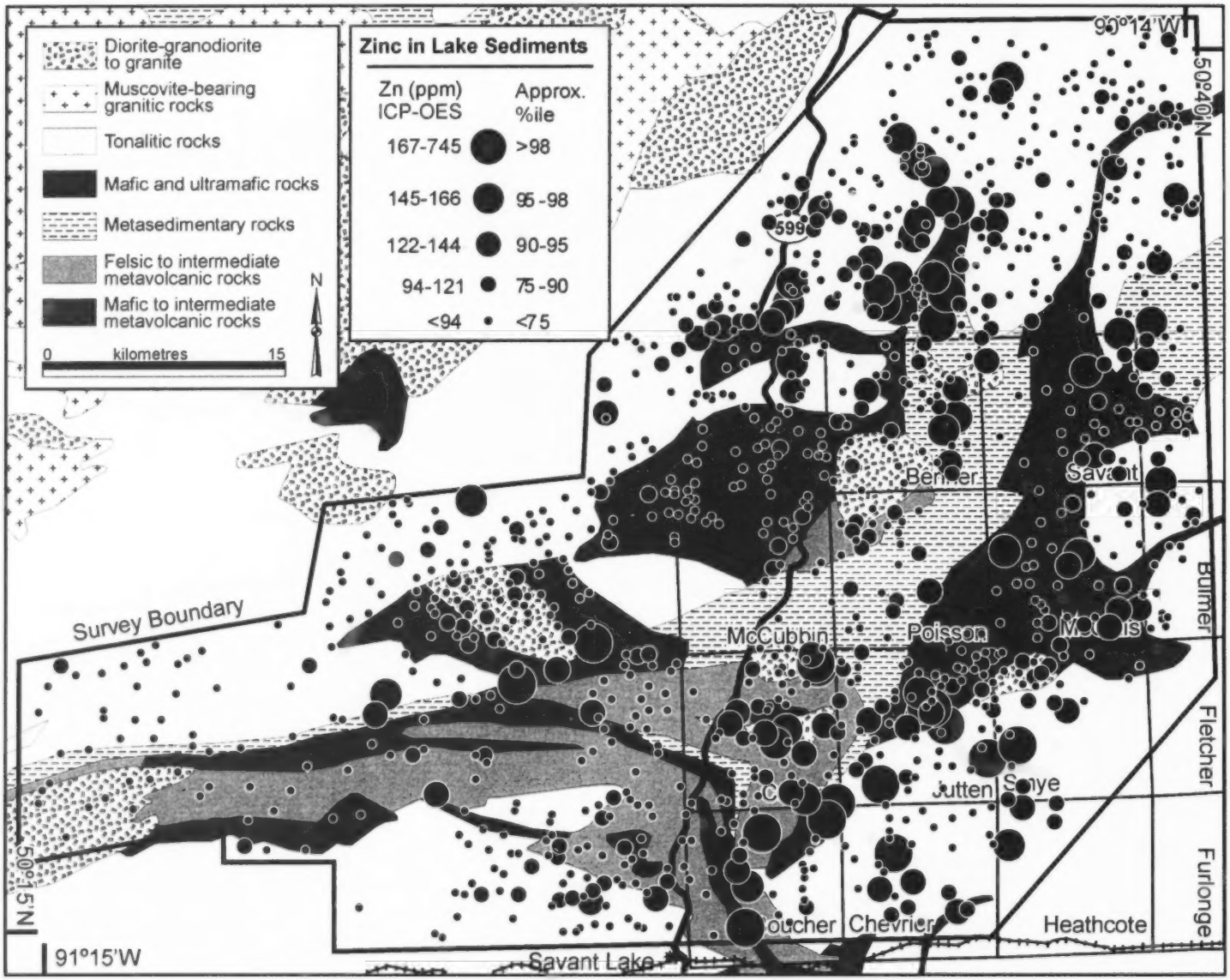
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Total REE's in Lake Sediments
REE (ppm) ICP-MS
Approx. %ile
316.21-424.7 >99
240.06-316.2 95-99
200.62-240.05 90-95
140.72-200.61 75-90
<140.72 <75
90°14'W
50°40'N
59
Survey Boundary
Savant
Bulmer
McCubbin
Poisson
McGillis
Fletcher
Furlonge
Boucher
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W

50°40'N
90°14'W
Bulmer
Fletcher
Furlonge
Savant
Berner
Poisson
Macollis
McCubbin
Conan
Jutten
Smye
Heathcote
Boucher
Chevrier
Savant Lake
Survey Boundary
50°15'N
91°15'W
599
Titanium in Lake Sediments
Ti (ppm) ICP-OES
Approx. %ile
597-897 >99
469-596 98-99
341-468 95-98
214-340 75-95
<214 <75
Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
N
0
kilometres
15


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Uranium in Lake Sediments
U (ppm) ICP-MS
Approx. %ile
7.72-14.05 >98
6-7.71 95-98
4.61-5.99 90-95
2.84-4.6 75-90
<2.84 <75
60°14'W
50°40'N
59
Survey Boundary
Berner
Savant
Bulmer
McCubbin
Poisson
McGillis
Fletcher
Corbar
Smye
Furlonge
Boucher
Chevrier
Heathcote
50°15'N
91°15'W
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Vanadium in Lake Sediments
V (ppm) ICP-OES
Approx. %ile
51-94 >98
44-50 95-98
38-43 90-95
26-38 75-90
<26 <75
90°14'W
50°40'N
59
Benner
Savant
Survey Boundary
McCubbin
Poisson
McCallis
Bulmer
Fletcher
Furlonge
Jutten
Soye
Heathcote
50°15'N
91°15'W
Savant Lake


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Tungsten in Lake Sediments
W (ppm) ICP-MS
Approx. %ile
1-6.54 >99.5
0.52-0.99 98-99.5
0.29-0.51 90-98
<0.29 <90
90°14'W
50°40'N
599
Bennier
Savant
Survey Boundary
McCubbin
Poisson
McGillis
Bulmer
Fletcher
Furlonge
Smye
Chevrier
Heathcote
Savant Lake
50°15'N
91°15'W


Diorite-granodiorite to granite
Muscovite-bearing granitic rocks
Tonalitic rocks
Mafic and ultramafic rocks
Metasedimentary rocks
Felsic to intermediate metavolcanic rocks
Mafic to intermediate metavolcanic rocks
0 kilometres 15
N
Zinc in Lake Sediments
Zn (ppm) ICP-OES
Approx. %ile
167-745 >98
145-166 95-98
122-144 90-95
94-121 75-90
<94 <75
90°14'W
50°40'N
599
Survey Boundary
McCubbin
Poisson
Jutten
Heathcote
Savant Lake
50°15'N
91°15'W
Bumer
Fletcher
Furlonge

Appendix C

Lake Sediment Analytical Data

for LOI, Ag, Au, Cr, Cu, Fe, Mo, Ni, Pb, Pd, Pt, total REE, V and Zn

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
1	1	667738	5569856	42.20	0.46	3.39	3	39	60	52492	2.92	31.40	7.32	<0.9	0.76	293.02	51	204
2	2	669753	5570506	35.10	0.15	<0.9	14	26	28	17561	0.91	19.67	3.28	<0.9	<0.5	122.31	22	84
3	3	671433	5571008	28.80	0.16	<0.9	2	26	25	29537	1.07	17.98	3.58	<0.9	<0.5	146.03	37	109
4	4	675990	5572092	42.70	0.19	<0.9	1	30	28	24780	1.12	20.46	5.24	<0.9	<0.5	178.93	38	132
5	5	676774	5570555	29.50	0.10	<0.9	<1	24	23	16389	1.25	20.39	3.56	<0.9	<0.5	125.32	25	100
6	6	677796	5570931	29.60	0.10	<0.9	5	27	25	19272	1.22	25.89	3.87	<0.9	<0.5	139.14	26	110
7	7	678530	5570030	45.40	0.09	<0.9	<1	19	21	13894	0.73	18.35	5.43	<0.9	<0.5	106.86	28	78
8	8	680814	5570690	43.80	0.12	<0.9	<1	29	23	24860	0.92	20.96	4.29	<0.9	<0.5	167.50	41	122
9	9	681423	5570882	43.20	0.10	<0.9	1	29	24	26692	0.90	19.34	4.16	<0.9	<0.5	160.66	42	120
16	17	686795	5576269	44.50	0.17	<0.9	<1	32	43	22263	1.09	25.47	3.90	<0.9	<0.5	331.34	40	109
17	18	686962	5577350	35.80	0.15	<0.9	3	29	27	23579	1.40	22.78	25.62	<0.9	<0.5	231.28	31	111
18	19	687626	5583197	45.00	0.20	<0.9	2	35	41	26731	1.28	28.65	4.56	<0.9	<0.5	354.44	43	142
19	21	691440	5585073	42.70	0.28	<0.9	3	21	63	7137	0.99	20.45	3.12	<0.9	1.20	228.20	27	46
20	22	692132	5585885	44.65	0.13	<0.9	<1	13	55	4902	0.87	16.62	2.55	<0.9	<0.5	83.44	18	40
29	32	695855	5596732	61.50	0.21	INF	<1	19	38	9849	2.66	15.60	5.38	INF	INF	253.26	42	65
30	33	694851	5599539	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31	34	695020	5600335	81.90	0.06	INF	INF	8	10	2088	3.19	12.57	3.34	INF	INF	26.27	8	79
32	35	695152	5601340	47.00	0.06	<0.9	<1	10	29	3562	1.60	26.01	1.64	<0.9	<0.5	94.93	6	46
33	36	695225	5601683	68.80	0.09	<0.9	2	16	34	3563	1.30	35.47	2.53	1.06	0.51	64.04	7	61
34	37	695043	5602390	65.90	0.13	INF	1	34	39	5591	2.29	29.29	4.21	INF	INF	86.76	20	86
35	38	695703	5603455	66.60	0.06	INF	<1	20	27	3008	1.58	40.87	2.45	INF	INF	96.03	8	67
36	39	694682	5606761	51.60	0.03	INF	<1	9	18	2423	1.02	23.57	1.52	INF	INF	38.21	5	42
37	41	695627	5609407	50.05	0.09	<0.9	1	19	39	3741	1.20	34.72	2.42	<0.9	1.04	176.14	12	40
38	42	695349	5614057	43.90	0.16	2.12	<1	45	38	20671	0.93	43.07	4.27	1.36	0.53	285.74	32	107
39	43	695481	5614458	55.20	0.09	<0.9	<1	14	29	4708	1.36	19.73	3.49	<0.9	<0.5	120.29	14	54
40	44	695723	5614736	60.50	0.07	<0.9	1	11	15	5873	0.92	10.60	3.16	<0.9	<0.5	141.15	14	78
41	45	694694	5616968	77.70	0.11	INF	2	12	20	7640	1.65	9.18	1.91	INF	INF	140.77	11	65
42	46	694436	5618511	62.70	0.12	INF	<1	11	23	8046	1.53	12.51	3.08	INF	INF	75.97	20	88
43	47	694503	5619335	67.70	0.08	INF	<1	17	22	6671	5.40	15.66	2.78	INF	INF	88.28	12	74
44	48	694367	5619898	66.00	0.14	INF	<1	16	41	5086	2.74	25.76	3.17	INF	INF	104.23	11	84
45	49	694648	5620550	58.80	0.36	INF	<1	23	98	7637	4.57	28.14	3.98	INF	INF	172.51	18	91
46	51	694363	5624047	58.80	0.11	INF	<1	12	54	2749	2.39	23.03	1.91	INF	INF	43.05	9	54
47	52	693979	5624691	70.50	0.13	INF	<1	28	59	12273	3.15	27.35	3.19	INF	INF	90.05	17	106
48	53	692597	5624951	76.00	0.06	INF	INF	11	16	2942	1.40	19.93	1.68	INF	INF	41.67	<5	79
49	54	692423	5624286	62.60	0.08	INF	2	17	23	6240	1.77	19.02	2.40	INF	INF	97.19	12	66
50	55	693682	5621691	53.50	0.07	INF	<1	17	14	8407	0.66	13.90	2.06	INF	INF	70.11	13	58
51	56	693859	5620443	47.05	0.09	1.65	1	43	23	15621	1.32	24.53	3.52	0.96	0.52	71.55	38	113
52	57	693677	5619397	67.60	0.16	<0.9	INF	17	65	4561	4.68	24.89	3.01	<0.9	1.08	55.08	15	68
53	58	693951	5617406	63.20	0.08	INF	<1	13	16	9798	1.68	12.11	3.73	INF	INF	93.72	15	84
54	59	694058	5616907	54.50	0.05	INF	<1	5	13	1942	2.15	9.56	2.28	INF	INF	27.16	6	56
55	61	694590	5614124	52.40	0.08	<0.9	1	7	21	2517	1.53	13.54	1.62	<0.9	<0.5	63.38	7	31
56	62	694336	5609925	68.80	0.06	INF	<1	10	18	5261	3.62	19.40	2.63	INF	INF	41.01	12	51
57	63	694442	5601521	19.00	0.06	<0.9	<1	23	10	10462	0.57	13.19	2.73	<0.9	<0.5	84.33	18	69
58	64	694415	5600818	53.10	0.06	INF	<1	8	64	4360	5.09	31.86	1.42	INF	INF	21.21	7	65
59	65	688659	5583718	48.10	0.10	<0.9	<1	12	25	11878	8.04	7.74	4.38	<0.9	<0.5	65.60	24	74
61	67	670445	5570052	50.90	0.17	<0.9	1	11	65	2975	4.20	23.01	2.50	1.24	<0.5	97.19	9	65
62	68	674592	5572057	64.45	0.40	INF	1	23	80	18559	1.58	17.01	3.26	INF	INF	226.28	32	73
63	69	676963	5571604	54.75	0.05	<0.9	<1	6	24	2307	2.83	10.48	0.89	<0.9	<0.5	36.11	7	26
64	71	678121	5572539	43.00	0.17	<0.9	<1	30	33	26958	1.12	20.21	6.20	<0.9	<0.5	195.59	42	139
65	72	680255	5571929	46.90	0.16	INF	<1	29	33	21162	1.05	20.10	4.20	INF	INF	178.67	35	118
67	74	683023	5574826	58.90	0.07	INF	<1	17	19	7612	0.89	18.92	3.05	INF	INF	65.64	13	40
68	75	684075	5574835	47.90	0.14	<0.9	<1	28	24	26367	0.72	15.77	3.99	<0.9	<0.5	230.24	49	161
69	76	684909	5577159	45.80	0.15	INF	1	37	33	25837	0.97	18.12	4.76	INF	INF	286.25	48	141
70	77	683972	5577671	58.20	0.13	INF	<1	31	43	16853	2.06	29.98	4.68	INF	INF	276.23	26	112
71	78	684869	5578387	29.00	0.12	INF	INF	37	32	14616	1.48	28.87	4.04	INF	INF	195.17	28	108
72	79	684181	5579739	44.90	0.09	<0.9	<1	11	20	3593	0.90	15.96	2.68	<0.9	<0.5	107.63	11	32
73	81	684609	5581037	43.20	0.16	INF	<1	30	38	17027	1.58	27.65	5.96	INF	INF	269.06	30	168
74	82	684046	5581701	46.50	0.16	<0.9	2	13	24	6795	0.70	18.49	4.07	<0.9	<0.5	192.17	13	54
75	83	684757	5582272	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
76	84	685193	5583744	45.70	0.13	<0.9	<1	30	39	18816	1.38	23.74	5.47	<0.9	<0.5	316.10	31	115
77	85	686808	5583594	47.30	0.17	INF	1	32	39	24948	1.27	20.81	4.47	INF	INF	337.76	43	109
78	86	687148	5584788	53.70	0.23	<0.9	1	28	57	14280	0.93	17.22	5.80	<0.9	<0.5	283.21	44	63
79	87	687385	5586447	43.20	0.10	INF	<1	42	36	18377	0.84	30.96	5.60	INF	INF	169.29	26	79
80	88	689027	5586639	41.50	0.07	<0.9	1	10	40	2721	0.51	11.75	2.10	<0.9	<0.5	50.71	8	28

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
81	89	690281	5588285	49.40	0.13	INF	INF	42	117	18544	1.49	39.07	5.24	INF	INF	96.30	35	125
82	91	692852	5588256	39.25	0.08	<0.9	<1	15	37	6573	0.80	20.31	3.10	<0.9	<0.5	134.18	16	55
83	92	693754	5588382	63.60	0.06	<0.9	1	4	13	918	5.03	9.31	3.20	<0.9	<0.5	81.72	8	12
84	93	693514	5588785	43.30	0.09	<0.9	<1	14	32	6583	0.79	19.24	3.34	<0.9	<0.5	121.20	11	53
85	94	693573	5589085	44.05	0.10	<0.9	<1	18	37	7971	0.61	21.97	3.82	<0.9	<0.5	155.79	15	71
86	95	693826	5588051	46.40	0.10	<0.9	<1	14	31	5955	0.77	14.22	3.68	<0.9	<0.5	125.42	12	39
97	107	694751	5592507	68.80	0.10	INF	<1	10	26	4719	1.43	11.98	1.89	INF	INF	112.57	17	59
98	108	694725	5593239	50.40	0.10	INF	2	15	44	8280	0.97	20.44	3.56	INF	INF	167.48	19	48
99	109	694030	5593236	54.80	0.13	INF	<1	20	86	6960	1.14	30.52	4.06	INF	INF	307.94	25	65
100	111	695044	5594688	45.30	0.11	INF	1	16	37	9173	0.76	20.51	3.74	INF	INF	173.55	19	51
101	112	695556	5594819	66.50	0.13	INF	2	15	63	6657	1.20	25.90	3.13	INF	INF	87.84	15	67
102	113	695449	5595266	53.40	0.15	INF	2	26	90	13058	2.43	39.10	3.71	INF	INF	280.67	34	105
103	114	694742	5596193	61.30	0.09	INF	<1	10	16	5621	1.81	13.50	4.26	INF	INF	128.91	14	51
104	115	694161	5596490	67.00	0.10	INF	1	13	26	6304	5.04	13.76	2.83	INF	INF	196.36	18	77
105	116	693275	5595935	46.90	0.16	INF	4	27	28	24509	0.96	22.15	5.92	INF	INF	303.35	35	143
106	117	693542	5597294	61.70	0.18	INF	2	32	79	30786	4.23	38.68	4.32	INF	INF	285.04	36	166
107	118	693271	5598653	48.00	0.10	INF	2	18	26	10660	1.16	26.63	3.40	INF	INF	181.25	20	114
108	119	694026	5599375	72.70	0.10	INF	2	13	24	4487	2.13	15.02	2.88	INF	INF	89.74	15	82
109	121	693126	5600710	50.30	0.09	INF	<1	11	20	4722	1.14	14.17	2.90	INF	INF	93.21	9	52
110	122	693405	5601668	57.30	0.08	INF	2	29	31	7343	1.16	31.86	4.09	INF	INF	85.44	16	83
111	123	693869	5603612	71.80	0.15	INF	2	24	63	8479	3.77	40.14	4.77	INF	INF	86.27	16	121
112	124	694193	5605626	41.95	0.11	INF	<1	21	41	5581	1.04	20.95	1.78	INF	INF	276.39	13	39
113	125	693756	5606277	52.80	0.16	INF	2	39	52	16932	0.95	41.84	4.19	INF	INF	239.94	30	87
114	126	692926	5607207	37.10	0.10	INF	2	39	24	24388	1.09	33.88	4.07	INF	INF	129.29	29	147
115	127	692504	5608955	55.40	0.08	INF	2	27	23	10066	2.58	25.67	3.44	INF	INF	64.44	14	78
116	128	693398	5610894	72.70	0.16	<0.9	4	23	35	13681	1.31	16.93	4.12	<0.9	0.51	112.11	37	125
117	129	693257	5611728	77.50	0.06	INF	<1	8	9	2958	1.47	14.98	3.58	INF	INF	18.98	<5	66
118	131	694318	5613654	47.10	0.09	INF	<1	14	15	9976	1.41	12.32	4.80	INF	INF	78.53	15	47
119	132	693765	5613873	68.80	0.09	<0.9	<1	19	29	2568	1.72	25.18	2.39	<0.9	<0.5	53.71	9	77
120	133	694393	5615078	47.70	0.13	<0.9	<1	27	24	22401	1.18	16.47	4.24	<0.9	<0.5	166.59	39	125
121	134	692432	5612005	69.30	0.08	<0.9	<1	8	12	2455	1.76	11.15	3.44	<0.9	<0.5	26.88	8	79
122	135	692257	5610699	50.40	0.07	INF	<1	16	17	6475	0.93	15.56	2.72	INF	INF	40.92	12	79
123	136	692061	5609986	38.60	0.12	<0.9	<1	15	12	7841	0.87	12.28	3.10	<0.9	<0.5	64.87	14	73
124	137	691996	5600932	40.40	0.09	<0.9	2	10	43	3996	2.39	25.47	1.64	<0.9	<0.5	87.97	7	41
125	138	691560	5601036	67.10	0.14	<0.9	<1	16	43	3363	2.60	21.89	1.53	<0.9	<0.5	51.92	10	92
126	139	692264	5600041	70.90	0.07	INF	<1	15	33	5950	3.55	15.69	2.79	INF	INF	84.60	20	108
127	141	691063	5598552	75.70	0.05	INF	<1	7	10	3220	1.21	12.86	3.82	INF	INF	26.59	8	53
128	142	692354	5595979	67.40	0.05	<0.9	<1	11	16	8719	1.27	13.66	1.88	<0.9	<0.5	66.15	12	92
129	143	693287	5594488	50.80	0.12	<0.9	2	21	61	11222	0.95	29.72	3.39	<0.9	<0.5	245.86	25	80
130	144	693014	5592080	33.70	0.12	INF	<1	8	33	3592	0.38	10.51	1.63	INF	INF	77.95	6	21
131	145	693187	5590395	79.60	0.05	INF	<1	5	8	1920	0.93	6.01	6.80	INF	INF	27.08	9	20
132	146	692334	5590245	59.20	0.07	<0.9	1	12	20	5621	0.94	10.04	2.30	<0.9	<0.5	118.78	26	67
133	147	685738	5584603	48.20	0.15	<0.9	1	24	33	15648	0.96	15.73	6.96	1.15	0.61	299.68	35	85
134	148	682803	5575428	44.00	0.05	<0.9	<1	8	13	4547	0.79	11.17	2.29	1.04	<0.5	63.67	11	28
135	149	680475	5574671	50.90	0.04	<0.9	<1	6	13	3133	1.00	12.81	2.71	<0.9	<0.5	27.60	6	30
136	151	676285	5573089	44.05	0.11	<0.9	3	13	18	9781	0.70	15.03	2.80	<0.9	<0.5	116.41	16	65
137	152	671369	5571435	55.00	0.08	2.96	<1	8	12	11454	2.72	7.25	2.75	<0.9	<0.5	27.56	8	48
138	153	671149	5572136	20.90	0.03	<0.9	1	<4	12	4537	2.45	9.41	1.03	<0.9	<0.5	10.38	6	19
139	154	674443	5573927	67.50	0.07	<0.9	<1	12	14	7707	0.78	13.14	2.99	<0.9	<0.5	58.97	16	49
140	155	675938	5573623	51.40	0.10	<0.9	<1	10	19	5765	0.71	13.92	3.22	<0.9	<0.5	179.97	19	45
141	156	676956	5574361	48.70	0.14	<0.9	1	22	22	24191	0.84	14.93	4.35	<0.9	<0.5	226.01	36	173
142	157	679353	5575912	49.80	0.07	<0.9	<1	7	18	3092	0.95	10.70	1.44	<0.9	<0.5	43.28	8	23
143	158	680489	5576489	59.80	0.10	<0.9	1	15	34	4437	0.99	20.19	2.72	<0.9	<0.5	130.05	9	55
144	159	681790	5576808	51.70	0.10	<0.9	1	14	20	5968	0.74	16.47	2.38	<0.9	<0.5	98.51	11	59
145	161	682958	5577195	50.10	0.13	<0.9	1	15	28	6232	1.04	17.36	2.54	<0.9	<0.5	107.44	12	70
146	162	681694	5579454	48.50	0.29	<0.9	1	22	27	13378	1.02	15.62	6.43	<0.9	<0.5	236.15	27	54
147	163	682848	5580256	48.30	0.28	INF	<1	32	48	23039	1.99	28.57	7.11	INF	INF	391.42	48	194
148	164	682373	5580821	48.80	0.17	INF	<1	23	26	11623	0.65	16.81	5.71	INF	INF	181.04	26	65
149	165	682402	5581959	49.40	0.11	<0.9	<1	16	21	7699	0.67	16.14	3.87	<0.9	<0.5	86.76	17	51
150	166	683356	5582008	59.30	0.13	INF	<1	28	38	15232	1.21	18.83	7.32	INF	INF	208.20	33	73
151	167	683024	5583132	50.10	0.13	INF	1	31	39	17404	1.28	18.91	5.16	INF	INF	219.09	41	121
152	168	684932	5584812	49.70	0.07	<0.9	1	21	33	12982	1.74	15.16	4.70	<0.9	<0.5	199.46	21	74
153	169	684671	5585409	59.20	0.03	<0.9	<1	11	24	3913	1.86	19.56	2.33	<0.9	<0.5	99.01	8	67
154	171	685633	5586109	62.20	0.05	INF	2	19	35	17132	1.24	20.41	5.37	INF	INF	219.16	29	91
155	172	685590	5585197	49.30	0.12	<0.9	<1	30	43	17656	1.21	20.79	6.24	<0.9	<0.5	379.67	36	106

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
156	173	686060	5585474	47.10	0.09	<0.9	3	32	40	17073	1.27	21.39	5.20	1.06	0.51	340.10	32	103
157	174	686460	5585972	39.35	0.08	INF	INF	41	60	19174	2.44	35.12	5.74	INF	INF	250.93	35	107
158	175	687227	5587194	51.90	0.10	<0.9	5	32	71	14189	0.71	30.15	4.21	2.92	1.14	127.27	26	104
159	176	688140	5587849	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
160	177	688636	5588484	54.45	0.06	INF	2	32	82	16915	1.47	38.59	5.16	INF	INF	101.13	26	112
161	178	689388	5588871	60.00	<0.02	INF	<1	11	27	4029	0.77	26.50	2.10	INF	INF	31.13	7	71
162	179	690921	5589384	48.50	0.09	INF	<1	37	116	19384	1.37	34.04	4.41	INF	INF	97.80	36	128
163	181	692087	5589459	41.20	0.07	<0.9	<1	27	52	26997	1.39	28.64	5.23	1.16	<0.5	218.65	41	144
164	182	691108	5590821	45.80	0.08	INF	3	35	96	16531	1.07	32.93	5.08	INF	INF	102.39	30	103
165	183	690546	5592661	61.60	<0.02	INF	<1	8	26	3459	2.18	18.07	3.20	INF	INF	56.53	9	68
166	184	692189	5593424	47.80	0.09	<0.9	<1	21	64	9608	0.85	27.10	4.58	<0.9	<0.5	199.62	21	80
167	185	691393	5594661	64.00	<0.02	<0.9	<1	11	12	6923	0.91	18.81	3.22	<0.9	<0.5	58.36	11	52
168	186	691217	5595595	67.10	<0.02	INF	1	11	12	3656	2.45	10.66	2.44	INF	INF	35.64	11	100
169	187	690234	5598761	62.90	0.04	INF	1	19	23	10169	0.88	21.11	4.12	INF	INF	63.10	17	114
170	188	692486	5602980	51.80	0.06	<0.9	2	39	32	16170	0.98	31.84	4.18	<0.9	<0.5	111.71	23	102
171	189	691792	5603719	71.80	0.03	INF	1	18	25	3714	2.02	18.85	2.62	INF	INF	48.53	10	86
172	191	692551	5604847	49.40	0.07	0.98	2	44	35	23761	1.37	33.80	4.72	1.85	0.68	136.48	33	133
173	192	692545	5606098	62.55	0.04	INF	2	29	37	21802	3.10	28.96	3.05	INF	INF	176.85	39	95
174	193	691132	5610599	60.95	0.02	<0.9	<1	16	18	8244	1.02	16.67	3.71	<0.9	<0.5	61.55	12	91
175	194	691225	5611456	59.70	<0.02	<0.9	<1	16	16	8865	1.46	17.77	7.63	<0.9	<0.5	78.60	16	111
176	195	691516	5612423	52.30	<0.02	INF	<1	15	17	8156	1.03	23.35	3.35	INF	INF	62.47	14	84
177	196	691924	5614625	42.40	<0.02	INF	<1	19	22	9604	5.31	22.28	3.07	INF	INF	62.97	16	69
178	197	692020	5616308	47.60	0.03	INF	<1	13	14	7324	0.52	11.04	4.20	INF	INF	63.38	13	78
179	198	692302	5617088	52.30	<0.02	INF	1	9	13	3553	1.85	12.20	2.71	INF	INF	64.68	7	52
180	199	692135	5618959	36.10	0.12	INF	<1	21	25	18413	1.31	14.46	3.04	INF	INF	76.10	22	78
181	201	692972	5620445	79.90	0.04	INF	INF	20	33	9126	3.56	21.48	2.84	INF	INF	62.63	11	80
182	202	692250	5620851	52.20	0.04	INF	1	9	25	2763	1.14	21.94	3.30	INF	INF	66.10	7	62
183	203	692235	5621957	62.40	0.03	INF	<1	9	17	3789	1.34	15.25	2.14	INF	INF	53.57	9	72
184	204	691621	5621551	68.50	<0.02	INF	<1	8	11	2701	1.41	11.11	1.83	INF	INF	40.57	9	61
185	205	691541	5620789	63.20	0.02	INF	<1	11	27	3352	1.09	20.55	2.57	INF	INF	89.11	10	67
186	206	691230	5620290	52.50	0.07	INF	<1	8	39	3540	1.12	14.34	2.82	INF	INF	52.24	11	75
187	207	691062	5619470	51.70	0.09	INF	1	27	61	15992	1.23	22.96	4.38	INF	INF	94.92	29	108
188	208	690942	5617113	60.70	<0.02	INF	<1	6	8	4431	1.05	9.29	2.31	INF	INF	33.15	9	51
189	209	690591	5616770	66.10	0.08	INF	<1	7	19	14098	1.54	9.82	5.21	INF	INF	75.49	28	134
190	211	690745	5615403	50.60	0.02	INF	<1	10	13	4643	1.49	10.55	2.79	INF	INF	81.08	11	71
191	212	690249	5614963	52.80	0.10	INF	1	10	17	3535	2.34	9.89	2.43	INF	INF	105.74	13	66
192	213	690621	5614678	52.40	0.14	INF	<1	9	13	5391	1.37	10.22	2.74	INF	INF	80.40	11	76
193	214	690110	5610492	46.90	0.08	INF	<1	18	34	11915	4.36	21.63	3.38	INF	INF	47.93	15	80
194	215	690900	5607750	62.90	0.04	INF	<1	8	16	3576	3.10	15.08	1.24	INF	INF	27.22	11	77
195	216	691451	5607672	58.25	0.06	INF	<1	16	25	7641	1.60	14.65	2.00	INF	INF	63.07	16	64
196	217	691041	5606494	53.25	0.15	INF	<1	42	31	28909	1.16	26.05	5.10	INF	INF	162.47	40	161
197	218	691186	5605082	45.30	0.13	INF	<1	47	30	24376	1.05	31.96	4.89	INF	INF	147.80	32	115
198	219	690867	5603307	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
199	221	690834	5601793	75.80	0.08	INF	INF	14	15	4730	1.59	13.42	2.06	INF	INF	40.14	10	53
200	222	689451	5593714	59.10	0.06	INF	<1	12	17	6252	1.02	20.19	3.05	INF	INF	56.90	9	61
201	223	689589	5590857	73.50	0.02	INF	<1	5	20	1596	1.16	20.30	1.72	INF	INF	11.61	<5	43
202	224	689420	5588928	61.60	0.04	INF	1	12	32	3578	1.23	27.87	1.53	INF	INF	35.03	7	73
203	225	687683	5588887	74.20	0.04	INF	1	11	45	3177	1.56	27.14	1.23	INF	INF	19.35	6	65
204	226	686556	5588537	49.00	0.14	INF	1	33	85	13044	0.88	25.99	3.27	INF	INF	124.99	28	96
205	227	685851	5587599	52.20	0.14	INF	1	33	78	13538	0.90	26.94	4.25	INF	INF	126.25	28	92
206	228	667839	5571099	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
207	229	669309	5571757	43.50	0.17	INF	3	21	32	8754	0.99	13.86	3.78	INF	INF	118.21	21	62
208	231	673343	5577518	36.35	0.20	INF	<1	40	36	93698	5.73	26.54	7.32	INF	INF	287.27	65	199
209	232	674849	5586702	43.15	0.21	INF	1	30	51	18382	0.94	25.48	5.22	INF	INF	162.73	26	103
210	233	674652	5585752	56.90	0.10	INF	<1	24	38	6086	1.12	26.19	3.65	INF	INF	68.74	11	59
211	234	674632	5585075	70.70	0.08	INF	<1	13	28	12912	2.11	14.12	2.50	INF	INF	51.35	14	78
212	235	677214	5592156	66.00	0.09	INF	<1	10	31	2541	2.24	18.76	1.82	INF	INF	66.49	8	59
213	236	677196	5598179	58.30	0.10	INF	<1	15	21	6792	0.84	16.07	4.26	INF	INF	100.37	18	68
214	237	678697	5599168	50.90	0.12	INF	<1	16	32	8976	1.08	24.82	2.99	INF	INF	169.92	19	82
215	238	677609	5602091	46.25	0.03	INF	<1	5	22	3181	1.21	13.72	1.54	INF	INF	37.75	5	54
216	239	677817	5603313	45.50	0.10	INF	1	20	63	6458	1.11	23.85	2.69	INF	INF	125.76	11	45
217	241	677540	5603555	44.90	0.16	INF	1	31	77	9611	1.36	26.71	2.37	INF	INF	101.28	16	75
218	242	677544	5609161	45.00	0.27	INF	<1	46	102	97379	7.78	45.45	8.74	INF	INF	238.67	83	448
219	243	677568	5616723	73.00	0.08	INF	1	16	18	5102	2.04	11.54	1.86	INF	INF	90.69	17	60
220	244	677673	5617391	74.25	0.12	INF	INF	16	20	4410	1.98	11.30	2.32	INF	INF	92.66	19	59

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
221	245	676934	5619853	58.50	0.09	INF	<1	17	20	14026	1.29	11.81	2.63	INF	INF	127.64	29	79
222	246	676887	5621378	51.35	0.07	INF	2	13	16	4736	0.75	15.79	2.78	INF	INF	137.17	11	53
223	247	676584	5623084	56.30	0.07	INF	<1	13	19	5585	1.42	13.36	2.11	INF	INF	128.52	16	58
224	248	676758	5624003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
225	249	678542	5622671	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
226	251	677804	5622967	56.60	0.12	INF	<1	19	21	7431	0.71	13.69	3.71	INF	INF	207.82	22	53
227	252	678347	5623494	54.00	0.22	INF	<1	22	25	7734	2.27	24.68	2.65	INF	INF	125.98	17	60
228	253	679296	5623820	45.90	0.20	INF	1	30	16	12440	0.70	20.33	3.19	INF	INF	100.81	18	67
229	254	679025	5624376	62.90	0.24	INF	2	29	24	5490	1.04	17.83	3.83	INF	INF	89.99	38	56
230	255	678032	5624808	85.60	0.03	INF	<1	5	7	13826	13.41	5.47	0.70	INF	INF	13.68	9	<2
231	256	679756	5624925	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
232	257	679497	5625083	74.20	0.10	INF	INF	21	21	7775	5.81	14.69	3.20	INF	INF	45.81	20	63
233	258	679006	5624818	79.30	0.10	INF	<1	10	14	2958	1.39	7.45	3.58	INF	INF	24.12	14	90
234	259	681983	5624684	52.60	0.06	INF	<1	28	17	4825	0.89	21.16	2.28	INF	INF	92.26	14	46
235	261	680929	5623565	51.10	0.10	INF	2	48	27	16476	1.01	28.65	3.14	INF	INF	135.91	26	113
236	262	682522	5622420	73.75	0.03	INF	<1	16	21	3322	1.62	29.20	1.65	INF	INF	50.99	8	61
237	263	681659	5622430	74.20	0.07	INF	<1	25	22	5248	2.03	23.28	2.71	INF	INF	80.15	17	74
238	264	680923	5622210	73.60	0.06	INF	2	22	17	4345	1.29	22.51	5.56	INF	INF	79.02	11	80
239	265	681690	5621366	70.10	0.13	INF	1	50	33	22980	1.20	25.41	2.88	INF	INF	176.48	43	107
240	266	682710	5620969	54.40	0.08	INF	1	36	20	9494	0.77	23.52	2.81	INF	INF	156.07	17	76
241	267	683657	5621421	45.00	0.06	INF	2	57	25	26502	1.09	31.18	3.05	INF	INF	185.69	34	134
242	268	684121	5622435	46.60	0.09	INF	<1	59	25	31295	0.78	27.90	3.59	INF	INF	229.19	42	159
243	269	685129	5623738	71.50	<0.02	INF	<1	14	16	3498	1.67	15.61	2.79	INF	INF	60.97	10	80
244	271	684176	5624480	65.50	0.02	INF	<1	33	19	5508	0.83	32.52	2.47	INF	INF	147.19	12	60
245	272	686315	5624244	61.70	0.04	INF	<1	22	23	6071	1.22	18.20	2.47	INF	INF	75.00	14	63
246	273	688525	5624134	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
247	274	690371	5623854	75.40	0.03	INF	<1	8	14	2192	1.99	8.27	2.38	INF	INF	28.12	9	62
248	275	689837	5624610	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
249	276	690264	5625335	71.30	0.04	INF	1	15	35	9091	1.86	21.90	3.87	INF	INF	117.21	11	77
250	277	691492	5623235	62.45	0.05	INF	1	17	24	7300	2.00	16.64	2.11	INF	INF	80.79	18	64
251	278	690581	5622018	75.60	<0.02	INF	<1	9	13	3647	1.05	19.46	2.69	INF	INF	26.60	<5	55
252	279	689941	5622100	66.80	<0.02	INF	<1	10	13	3571	1.09	16.94	2.85	INF	INF	45.52	6	33
253	281	689189	5622538	53.50	0.02	INF	2	14	15	7367	0.98	14.55	3.20	INF	INF	62.17	16	73
254	282	689419	5623211	49.20	0.02	INF	<1	9	24	4128	1.82	8.34	1.91	INF	INF	101.59	12	65
255	283	688055	5622579	40.70	0.03	INF	<1	32	26	15514	1.28	22.65	2.87	INF	INF	91.10	20	91
256	284	687656	5622304	40.80	0.05	INF	<1	31	23	12016	0.96	20.44	3.24	INF	INF	91.27	21	75
257	285	688249	5621672	67.70	0.03	INF	INF	21	33	10918	1.60	23.80	2.92	INF	INF	111.93	16	75
258	286	687384	5621440	65.80	0.03	INF	INF	19	46	10040	1.50	27.18	3.27	INF	INF	110.76	15	71
259	287	690697	5621068	82.90	<0.02	INF	INF	9	18	1760	3.99	17.34	1.59	INF	INF	19.75	5	80
260	288	689868	5621126	75.00	<0.02	INF	INF	18	11	7317	1.63	14.90	2.37	INF	INF	52.73	13	116
261	289	689776	5620306	73.60	0.02	INF	INF	11	15	2858	1.94	11.63	2.46	INF	INF	40.91	9	68
262	291	688756	5620315	20.90	<0.02	INF	<1	13	20	11091	1.14	10.32	2.18	INF	INF	55.47	14	36
263	292	687440	5620666	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
264	293	685785	5621152	71.20	0.04	INF	INF	18	25	4333	1.83	18.76	7.51	INF	INF	94.09	8	62
265	294	684245	5620527	67.50	0.03	INF	<1	15	18	1709	2.85	16.25	1.89	INF	INF	66.99	10	59
266	295	683859	5619965	54.10	<0.02	<0.9	<1	11	16	1871	1.44	16.90	2.36	<0.9	0.64	90.68	8	29
267	296	680476	5613353	69.55	0.14	<0.9	<1	13	76	11730	1.45	16.61	6.66	<0.9	<0.5	123.12	41	104
268	297	678238	5609717	53.70	<0.02	<0.9	<1	7	54	1919	0.95	16.35	1.15	<0.9	<0.5	14.96	6	38
269	298	676968	5584302	69.50	<0.02	INF	3	9	57	5447	1.73	24.38	1.63	INF	INF	15.12	7	65
270	299	676921	5583832	73.75	0.04	INF	2	12	65	7946	1.18	23.80	2.90	INF	INF	22.39	12	52
271	301	671377	5577730	59.20	0.20	<0.9	2	8	105	4033	1.82	13.59	1.82	<0.9	<0.5	63.05	10	162
272	302	670705	5577397	45.50	0.12	<0.9	2	6	24	2019	0.96	10.59	1.12	<0.9	<0.5	34.93	<5	21
273	303	660933	5569758	10.70	0.02	<0.9	3	13	12	8671	0.52	8.58	1.63	<0.9	<0.5	53.09	14	43
274	304	659268	5569814	42.05	0.08	<0.9	3	20	27	9050	0.69	18.07	2.70	<0.9	<0.5	135.18	18	68
275	305	658364	5569931	49.00	0.16	<0.9	3	22	34	12545	1.29	16.14	4.57	<0.9	<0.5	152.24	39	72
276	306	657395	5569645	50.80	0.10	<0.9	3	11	30	3902	0.67	12.87	2.00	<0.9	<0.5	66.08	15	38
277	307	657171	5569444	50.20	0.15	1.16	2	10	39	3156	0.97	11.70	1.88	<0.9	<0.5	54.43	13	36
278	308	656358	5569482	49.20	0.20	<0.9	1	16	60	7516	1.08	18.13	3.09	<0.9	<0.5	105.49	26	54
279	309	653298	5570234	63.80	0.10	INF	<1	13	24	3659	0.76	15.11	2.39	INF	INF	50.13	8	55
280	311	651201	5569874	NM	0.11	<0.9	<1	24	29	16875	1.06	30.80	3.07	<0.9	<0.5	153.68	28	108
281	312	649842	5570397	52.50	0.13	INF	4	19	37	15867	2.49	17.87	4.15	INF	INF	125.24	26	63
282	313	648886	5569091	53.10	0.05	<0.9	1	9	15	5031	1.04	12.86	2.95	<0.9	<0.5	41.17	8	62
283	314	648439	5569370	46.20	0.06	<0.9	1	10	17	6559	0.93	10.48	2.07	<0.9	<0.5	41.35	11	62
284	315	643692	5570954	37.20	0.10	<0.9	<1	27	28	16158	0.50	10.59	1.87	<0.9	<0.5	66.90	33	66
285	316	640317	5574512	40.50	0.06	<0.9	<1	22	25	8982	0.82	21.48	3.23	<0.9	<0.5	78.94	18	56

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method ---------->		Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units ---------->		%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit ---------->		0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
286	317	637984	5574498	11.80	0.08	<0.9	<1	22	14	10644	0.44	15.17	3.12	<0.9	<0.5	80.88	18	45
287	318	636621	5574798	20.30	0.14	<0.9	<1	36	21	24243	0.61	25.86	4.66	<0.9	<0.5	130.50	37	105
288	319	630476	5576311	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
289	321	625573	5575334	18.90	0.13	0.93	<1	41	20	23425	0.38	26.11	5.55	<0.9	0.94	122.43	37	72
290	322	623750	5577424	62.50	0.06	INF	2	15	12	5600	0.97	13.75	2.78	INF	INF	69.38	11	28
291	323	624002	5578199	56.90	0.05	<0.9	<1	8	11	3583	0.90	13.26	4.69	<0.9	<0.5	52.95	8	25
292	324	624542	5578633	63.70	0.05	INF	<1	10	13	4549	1.02	14.87	3.97	INF	INF	64.13	10	29
293	325	625199	5580491	24.10	0.17	<0.9	4	40	43	22415	2.18	35.10	5.90	<0.9	<0.5	113.77	35	68
294	326	623805	5583039	17.30	0.13	INF	<1	44	29	31090	1.89	30.41	6.46	INF	INF	137.11	52	62
295	327	624326	5584658	26.70	0.09	<0.9	<1	32	22	19504	0.80	21.26	4.24	<0.9	<0.5	151.70	35	72
296	328	625165	5585867	20.80	0.10	<0.9	4	33	20	33985	0.77	19.47	4.92	<0.9	<0.5	172.68	39	96
297	329	626069	5585303	65.70	0.07	INF	4	13	15	4524	1.17	12.41	4.06	INF	INF	57.47	11	61
298	331	625577	5584422	9.50	0.08	<0.9	<1	34	15	25985	0.26	21.32	4.92	1.14	1.53	129.60	38	63
299	332	627779	5583149	44.90	0.24	<0.9	5	27	45	21393	1.75	21.21	7.38	<0.9	<0.5	208.96	56	93
300	333	627794	5582669	30.90	0.17	<0.9	2	33	41	18226	1.11	22.98	6.25	<0.9	<0.5	184.50	38	80
301	334	626900	5580696	20.40	0.12	<0.9	<1	40	22	21430	0.61	25.55	5.60	<0.9	<0.5	127.49	35	89
302	335	626903	5577167	23.50	0.11	<0.9	2	25	9	11369	0.83	14.92	3.53	<0.9	<0.5	65.98	19	63
303	336	627983	5577797	26.50	0.13	<0.9	<1	28	13	14949	0.49	15.49	3.59	<0.9	<0.5	89.27	24	54
304	337	629679	5577063	61.40	0.16	INF	<1	18	27	6806	2.46	17.90	2.94	INF	INF	72.77	16	67
305	338	636756	5576410	56.20	0.10	INF	1	8	17	3080	1.89	13.89	2.26	INF	INF	19.69	<5	54
306	339	638372	5576955	18.60	0.12	<0.9	1	23	15	11691	0.60	16.04	3.95	<0.9	<0.5	70.37	19	45
307	341	642110	5576508	50.80	0.13	1.05	<1	10	21	4169	0.76	17.10	3.87	<0.9	<0.5	52.47	7	40
308	342	649633	5571824	27.50	0.19	<0.9	1	22	23	15246	0.80	21.12	2.79	1.07	<0.5	117.40	23	79
309	343	653631	5571710	68.50	0.26	<0.9	<1	16	48	12012	1.82	15.93	4.84	<0.9	<0.5	129.29	44	109
310	344	655645	5571031	29.90	0.16	<0.9	<1	19	19	10983	0.48	17.08	2.58	<0.9	<0.5	104.82	18	68
311	345	656109	5571386	26.30	0.17	<0.9	1	21	21	13856	0.70	21.14	2.64	<0.9	<0.5	143.82	23	101
312	346	658952	5571035	63.70	0.09	<0.9	<1	12	20	6939	1.71	16.40	2.21	<0.9	<0.5	63.68	21	40
313	347	658043	5571342	39.60	0.23	<0.9	<1	27	37	19272	1.07	27.33	3.61	<0.9	<0.5	234.82	33	142
314	348	657566	5571702	48.70	0.27	<0.9	3	23	35	14339	1.01	17.64	4.86	<0.9	<0.5	209.86	44	93
315	349	656987	5571537	38.70	0.16	<0.9	2	20	26	11742	0.83	18.34	3.37	<0.9	<0.5	149.53	24	97
316	351	660371	5570248	63.60	0.10	<0.9	1	10	16	4520	0.71	12.63	2.68	<0.9	<0.5	65.23	10	24
317	352	684848	5586152	62.10	0.23	INF	3	25	35	42455	2.11	22.44	8.93	INF	INF	204.86	31	102
318	353	685852	5588569	68.90	0.18	INF	2	20	88	5342	1.58	33.70	2.30	INF	INF	62.64	11	56
319	354	686261	5589407	48.40	0.20	<0.9	4	29	75	12961	1.14	23.97	5.11	<0.9	0.95	121.09	31	92
320	355	686049	5589662	74.10	0.11	INF	<1	11	45	2979	1.50	15.11	2.34	INF	INF	30.35	10	70
321	356	685645	5589933	56.10	0.09	INF	2	10	55	2845	2.12	16.56	1.59	INF	INF	40.45	9	60
322	357	687054	5590813	60.00	0.12	INF	2	20	61	7526	1.22	26.34	2.37	INF	INF	51.03	16	82
323	358	685305	5591000	63.80	0.14	<0.9	<1	22	58	9502	0.86	21.13	2.76	<0.9	0.67	52.69	17	83
324	359	684541	5591030	67.50	0.12	INF	<1	15	31	8792	0.98	14.60	2.88	INF	INF	28.11	12	73
325	361	685156	5592017	62.00	0.10	INF	<1	7	27	2189	1.26	18.60	1.60	INF	INF	15.81	6	64
326	362	685523	5592094	60.00	0.13	INF	<1	11	56	3330	1.93	18.09	1.45	INF	INF	27.03	9	53
327	363	685730	5592579	NM	0.16	INF	<1	9	36	8571	1.50	14.55	2.74	INF	INF	20.25	8	55
328	364	684509	5592856	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
329	365	683896	5593105	58.90	0.22	<0.9	1	24	69	18274	0.83	21.16	3.35	1.27	0.82	73.64	34	147
330	366	685438	5593521	46.20	0.14	INF	1	23	47	11263	2.75	19.40	2.98	INF	INF	55.53	17	44
331	367	686761	5593109	78.50	0.31	INF	<1	13	20	3811	2.37	13.38	1.81	INF	INF	27.44	9	73
332	368	687807	5592077	49.75	0.26	<0.9	<1	36	41	14151	0.82	25.44	4.46	0.98	0.75	83.87	29	143
333	369	688475	5592850	63.30	0.27	1.65	4	35	47	15221	1.50	26.38	5.35	1.75	1.10	90.77	28	164
334	371	686086	5594804	81.50	0.11	INF	<1	15	49	3298	1.92	21.58	1.33	INF	INF	21.18	7	54
335	372	688811	5594697	53.00	0.16	<0.9	<1	18	27	7308	0.85	16.88	3.04	<0.9	<0.5	71.16	11	62
336	373	687354	5595342	69.50	0.12	<0.9	<1	10	15	5406	1.17	16.94	3.52	<0.9	<0.5	23.59	6	68
337	374	687952	5595981	63.60	0.17	INF	3	18	29	9021	1.01	18.42	3.00	INF	INF	37.73	10	101
338	375	689162	5596461	54.85	0.10	<0.9	1	10	20	4474	1.02	14.78	2.60	<0.9	<0.5	50.46	10	51
339	376	690922	5597720	73.50	0.13	INF	<1	10	19	4143	2.59	16.29	2.39	INF	INF	49.92	12	94
340	377	689432	5598962	52.60	0.27	<0.9	1	24	31	10598	1.28	17.62	16.93	<0.9	<0.5	76.16	23	128
341	378	688577	5598714	69.70	0.12	INF	INF	26	48	11371	1.82	33.76	4.85	INF	INF	67.82	17	115
342	379	689942	5600375	73.40	0.13	INF	2	12	35	10660	1.91	14.91	1.74	INF	INF	37.04	13	74
343	381	689364	5600869	68.80	0.08	INF	INF	27	54	12119	3.25	32.26	3.19	INF	INF	55.88	15	74
344	382	687900	5601720	63.70	0.19	INF	<1	23	64	9934	1.41	20.96	2.77	INF	INF	47.39	18	91
345	383	689616	5602246	61.30	0.18	INF	4	28	72	10594	2.10	36.34	2.25	INF	INF	53.79	19	101
346	384	688937	5604259	43.50	0.22	0.98	<1	85	36	33668	1.13	47.61	6.12	1.49	0.82	162.46	48	153
347	385	689925	5604503	61.70	0.15	1.13	<1	20	53	4973	1.53	27.49	1.67	4.39	1.65	73.27	13	108
348	386	688737	5607417	71.80	0.10	INF	1	12	12	4247	1.60	9.95	3.00	INF	INF	24.68	8	90
349	387	689607	5608441	71.30	0.08	INF	<1	12	21	3788	2.70	15.49	2.60	INF	INF	29.69	8	98
350	388	689194	5610244	46.70	0.14	INF	2	12	19	4055	1.07	15.00	2.12	INF	INF	31.64	7	73

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
351	389	687117	5610591	63.90	0.15	<0.9	<1	7	41	4991	1.26	20.86	1.47	<0.9	<0.5	46.88	<5	50
352	391	688878	5612528	38.80	0.20	<0.9	<1	5	41	1391	1.40	15.17	2.09	<0.9	<0.5	60.43	5	25
353	392	689918	5612934	59.50	0.08	INF	<1	12	30	3999	2.06	27.60	2.40	INF	INF	61.78	9	60
354	393	689989	5613422	46.50	0.10	<0.9	<1	15	37	10317	5.75	23.39	3.69	<0.9	<0.5	69.03	16	61
355	394	689649	5613858	56.60	0.16	<0.9	<1	15	29	5657	1.48	25.16	2.50	<0.9	<0.5	73.11	13	59
356	395	689461	5614873	43.90	0.24	<0.9	2	23	62	11241	1.70	19.76	3.74	<0.9	0.67	143.00	20	89
357	396	689359	5616994	49.80	0.12	<0.9	<1	5	54	1322	4.82	15.46	1.56	<0.9	<0.5	47.96	<5	49
358	397	690116	5617687	63.65	0.05	INF	<1	16	26	11002	3.28	13.64	2.72	INF	INF	73.85	14	71
359	398	689110	5617995	70.40	0.15	INF	<1	14	45	11038	2.98	26.08	2.55	INF	INF	111.52	11	84
360	399	68826	5618211	59.30	0.09	INF	<1	12	30	10174	2.01	16.04	2.18	INF	INF	114.04	16	72
361	401	688317	5619197	41.70	0.11	<0.9	<1	15	21	11559	0.91	14.48	2.3	<0.9	<0.5	83.48	17	75
362	402	686823	5618849	69.80	0.06	INF	<1	15	33	11586	2.41	18.86	2.2	INF	INF	101.32	18	81
363	403	685624	5620312	85.70	0.13	INF	<1	8	12	1548	1.65	6.06	3.62	INF	INF	71.14	12	48
364	404	685643	5619285	60.70	0.09	INF	<1	10	21	3304	2.84	14.74	2.27	INF	INF	123.18	8	46
365	405	684932	5618331	46.50	0.10	<0.9	<1	8	13	2852	3.70	11.93	2.14	<0.9	<0.5	78.26	7	42
366	406	685812	5617719	61.20	0.10	INF	<1	9	13	7544	3.63	5.93	2.10	INF	INF	42.71	19	52
367	407	685322	5617147	51.10	0.09	<0.9	<1	11	25	6617	3.71	10.66	1.52	<0.9	<0.5	119.96	18	64
368	408	684794	5617210	81.30	0.15	INF	INF	9	9	3074	2.56	5.72	3.30	INF	INF	14.45	6	85
369	409	684619	5616890	23.90	0.06	<0.9	<1	17	6	7791	0.72	8.43	3.85	<0.9	<0.5	53.40	16	26
370	411	686187	5615996	70.35	0.06	INF	<1	8	14	3799	2.66	11.85	4.09	INF	INF	33.68	8	104
371	412	684881	5612713	73.10	0.04	<0.9	<1	10	7	5924	1.12	11.36	3.36	<0.9	<0.5	74.17	16	63
372	413	683772	5611807	57.30	0.67	<0.9	1	12	10	6857	0.88	13.68	3.53	<0.9	<0.5	76.14	17	63
373	414	684674	5611635	57.50	0.19	<0.9	1	19	25	4895	1.02	13.95	2.42	<0.9	<0.5	165.57	16	55
374	415	685290	5611660	78.50	0.11	INF	<1	9	14	2053	1.72	7.14	2.30	INF	INF	44.18	10	71
375	416	684229	5610482	74.70	0.10	INF	<1	12	16	6698	1.14	12.10	3.14	INF	INF	82.01	16	81
376	417	684087	5608826	53.10	0.11	<0.9	<1	9	13	3670	1.13	12.28	2.65	<0.9	<0.5	72.47	12	38
377	418	682849	5608440	58.20	0.18	INF	<1	12	15	149764	1.24	6.17	1.81	INF	INF	101.75	61	115
378	419	681530	5605011	68.60	0.08	INF	1	7	12	4119	0.90	7.12	1.94	INF	INF	74.85	9	49
379	421	680014	5600574	76.40	0.10	INF	<1	10	45	5560	3.76	24.86	2.57	INF	INF	82.26	28	148
380	422	680566	5599510	68.80	0.10	<0.9	<1	8	41	2940	1.13	17.11	2.31	1.56	<0.5	120.85	7	71
381	423	674559	5588961	59.00	<0.02	<0.9	<1	9	17	3870	1.26	23.56	2.58	<0.9	<0.5	47.74	7	53
382	424	672239	5585870	45.10	0.14	<0.9	<1	17	73	228938	0.63	49.69	3.93	<0.9	<0.5	24.79	8	595
383	425	669406	5583812	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
384	426	669694	5583838	21.70	<0.02	1.17	1	23	14	10860	1.12	13.73	4.47	<0.9	<0.5	64.92	16	60
385	427	670144	5583518	53.40	0.08	5.03	7	8	47	2450	3.36	17.76	1.61	<0.9	<0.5	86.13	<5	32
386	428	671369	5573275	77.80	0.02	INF	INF	21	12	15197	3.98	8.40	2.75	INF	INF	40.75	26	48
387	429	671874	5573423	70.30	0.03	<0.9	3	11	16	5022	1.28	10.48	2.66	<0.9	<0.5	56.16	17	79
388	431	673889	5574806	65.50	0.06	<0.9	<1	8	26	8128	1.65	8.57	3.11	1.12	<0.5	78.37	19	53
389	432	676625	5575167	59.30	<0.02	<0.9	<1	11	13	6276	0.69	13.93	5.29	<0.9	<0.5	75.03	10	33
390	433	676603	5575619	67.10	<0.02	<0.9	1	14	12	7292	1.10	13.37	4.93	1.31	<0.5	113.41	23	38
391	434	676644	5576451	63.35	<0.02	<0.9	<1	13	12	5877	0.93	14.56	6.92	<0.9	<0.5	87.11	15	48
392	435	677646	5576397	78.00	<0.02	INF	<1	5	6	1489	0.58	7.54	7.08	INF	INF	13.35	5	21
393	436	676334	5577260	51.80	0.03	INF	INF	26	18	8750	1.04	22.87	3.71	INF	INF	139.74	22	75
394	437	676102	5578711	35.00	0.16	<0.9	2	45	37	73067	3.90	29.61	7.44	<0.9	<0.5	287.46	52	203
395	438	677767	5578257	54.70	0.14	<0.9	1	12	26	7113	1.49	11.63	5.16	<0.9	<0.5	77.36	22	57
396	439	677682	5578985	41.70	0.14	1.54	5	35	35	21379	1.22	25.46	4.81	<0.9	<0.5	257.94	29	107
397	441	676011	5580443	23.70	0.03	<0.9	3	20	15	11361	0.61	14.79	2.60	<0.9	<0.5	75.16	17	74
398	442	675677	5581368	63.80	0.05	INF	INF	21	65	4650	3.07	20.38	2.90	INF	INF	20.37	9	50
399	443	677709	5582165	76.70	0.09	INF	1	11	64	7759	1.34	18.58	3.69	INF	INF	31.40	21	123
400	444	676549	5582362	60.70	0.11	INF	<1	18	66	9117	1.01	17.66	6.62	INF	INF	36.21	17	85
401	445	677590	5582775	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
402	446	677264	5583285	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
403	447	677463	5585887	23.20	0.04	1.98	<1	22	26	10267	0.60	15.90	2.83	<0.9	0.72	65.55	16	46
404	448	677199	5587744	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
405	449	676533	5587678	64.60	0.03	INF	1	9	34	4201	2.42	25.06	3.33	INF	INF	58.12	6	43
406	451	675608	5589192	NM	0.07	<0.9	2	9	33	3859	1.08	22.92	4.34	<0.9	<0.5	96.17	6	40
407	452	676794	5589255	62.55	0.11	INF	<1	33	50	24633	2.53	39.00	5.78	INF	INF	149.29	24	101
408	453	677081	5589939	48.70	0.18	1.03	2	31	49	27239	0.86	29.68	6.84	<0.9	<0.5	213.38	26	113
409	454	676115	5590425	44.90	0.10	INF	<1	19	30	11907	0.85	22.82	4.26	INF	INF	128.78	16	77
410	455	677266	5593425	70.10	0.06	INF	<1	13	24	3838	2.45	15.54	2.72	INF	INF	58.23	10	71
411	456	677192	5594063	53.40	0.05	INF	1	12	34	5503	1.28	27.10	3.74	INF	INF	78.82	7	53
412	457	677372	5594738	52.70	0.15	<0.9	<1	25	39	16262	0.98	21.75	7.03	<0.9	<0.5	198.37	22	92
413	458	676964	5595390	48.30	0.16	INF	2	25	26	15595	0.67	17.55	5.32	INF	INF	209.66	31	106
414	459	676475	5594587	62.30	0.21	INF	3	20	62	16512	1.65	20.21	3.68	INF	INF	240.32	18	70
415	461	680401	5598404	51.40	0.17	INF	2	25	57	18847	1.16	26.08	4.60	INF	INF	261.37	29	139

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
416	462	681410	5599612	47.70	0.18	<0.9	3	13	46	6184	0.87	19.79	3.08	<0.9	<0.5	203.11	10	71
417	463	680873	5601372	44.30	0.14	<0.9	1	26	34	23617	0.83	28.82	4.35	<0.9	<0.5	204.14	26	159
418	464	679742	5601962	51.30	0.08	INF	<1	19	33	12872	1.13	24.65	5.90	INF	INF	135.49	15	115
419	465	679170	5602196	71.30	0.05	INF	1	9	18	3525	1.76	10.52	3.00	INF	INF	95.96	9	62
420	466	679634	5602597	59.45	0.07	INF	INF	8	25	4183	1.40	14.64	3.74	INF	INF	173.87	8	54
421	467	679745	5603268	50.40	0.12	INF	1	19	44	11728	0.83	31.68	3.77	INF	INF	243.84	15	90
422	468	680388	5603689	55.80	0.11	INF	1	18	53	11380	1.97	36.57	3.68	INF	INF	187.34	14	88
423	469	680784	5603006	52.30	0.12	INF	INF	28	47	19672	1.43	31.94	4.22	INF	INF	177.27	23	127
424	471	682686	5604763	41.75	0.14	<0.9	1	26	32	20706	0.82	26.91	5.08	<0.9	<0.5	213.50	23	141
425	472	682366	5606145	36.80	0.07	<0.9	<1	25	26	15442	0.68	18.24	3.88	<0.9	<0.5	138.02	19	114
426	473	681195	5606329	43.60	<0.02	<0.9	<1	5	9	2415	0.69	10.47	2.50	<0.9	<0.5	44.11	5	39
427	474	681058	5606931	50.40	0.04	<0.9	2	9	12	4122	0.95	15.59	4.46	<0.9	<0.5	89.49	10	55
428	475	680934	5608188	51.60	0.05	<0.9	2	15	44	7150	1.01	24.57	3.14	<0.9	<0.5	116.88	16	103
429	476	681943	5607876	50.50	0.04	INF	1	20	19	11076	0.70	19.22	4.38	INF	INF	129.51	18	86
430	477	682544	5607409	55.10	0.04	INF	2	18	23	9898	1.16	18.62	3.25	INF	INF	134.77	20	92
431	478	682880	5606731	51.30	0.07	0.93	<1	22	30	15791	0.97	25.32	4.17	1.31	0.59	175.41	23	117
432	479	685409	5607211	66.60	0.07	INF	INF	23	50	11137	1.71	34.64	4.40	INF	INF	116.70	17	97
433	481	686444	5608564	53.70	0.09	INF	INF	25	35	14620	0.85	24.94	5.26	INF	INF	133.29	19	90
434	482	685543	5608899	74.20	0.04	INF	INF	16	42	10205	2.32	26.84	3.25	INF	INF	116.99	12	80
435	483	685709	5609625	67.30	0.04	INF	<1	13	37	9738	2.61	21.59	2.77	INF	INF	107.65	11	77
436	484	686941	5611016	66.70	0.05	INF	1	16	41	11840	2.24	30.34	3.20	INF	INF	116.46	13	88
437	485	685555	5612487	66.70	0.03	INF	<1	13	25	8746	1.55	17.72	2.85	INF	INF	82.06	13	92
438	486	686349	5612351	73.10	0.03	INF	INF	19	43	11878	2.14	33.02	3.38	INF	INF	125.40	16	90
439	487	687371	5612899	62.45	<0.02	INF	<1	15	30	9498	1.72	25.36	2.58	INF	INF	90.89	11	73
440	488	685935	5613712	54.80	<0.02	INF	<1	15	27	10245	1.57	18.14	2.50	INF	INF	81.07	16	79
441	489	688386	5614055	55.20	0.04	INF	<1	16	44	8692	1.79	24.61	3.13	INF	INF	89.50	13	64
442	491	687895	5615729	59.05	0.02	INF	<1	15	31	13052	1.92	19.18	3.12	INF	INF	87.24	16	65
443	492	683948	5614719	52.10	0.03	<0.9	<1	19	10	27758	1.85	10.94	1.91	<0.9	<0.5	137.94	36	121
444	493	683298	5614683	53.10	0.04	INF	<1	19	13	24052	0.96	12.06	5.12	INF	INF	109.77	32	104
445	494	682906	5615658	68.60	<0.02	INF	<1	9	8	4935	1.08	13.53	3.08	INF	INF	34.88	6	61
446	495	682565	5615273	71.10	0.02	INF	<1	8	11	3836	1.36	11.03	3.64	INF	INF	51.64	9	42
447	496	682499	5613847	61.70	0.02	INF	<1	13	12	3411	2.11	11.96	1.87	INF	INF	150.36	14	54
448	497	683332	5613364	54.50	<0.02	INF	<1	19	9	24479	0.91	12.92	2.35	INF	INF	130.23	37	130
449	498	682180	5613207	72.80	0.13	INF	<1	8	27	4169	1.84	13.29	3.76	INF	INF	115.59	23	94
450	499	682367	5612368	73.20	0.03	INF	<1	11	8	4556	0.91	10.03	3.58	INF	INF	35.80	10	52
451	501	683125	5612277	53.20	0.04	INF	<1	18	13	19825	0.98	12.07	1.97	INF	INF	118.46	31	96
452	502	682677	5611533	68.65	0.04	INF	<1	21	14	9063	1.41	14.45	4.72	INF	INF	100.43	23	84
453	503	681102	5611553	53.10	0.05	INF	2	16	37	5511	1.24	20.36	2.95	INF	INF	145.85	16	81
454	504	681052	5610624	47.20	0.03	<0.9	<1	12	28	5525	1.00	17.54	2.54	<0.9	<0.5	143.31	17	94
455	505	681983	5610706	55.60	0.05	INF	2	15	32	7889	1.30	18.40	2.05	INF	INF	129.73	21	76
456	506	681960	5609237	54.10	0.03	INF	<1	16	19	7387	0.69	14.79	2.16	INF	INF	127.78	14	68
457	507	678836	5605836	51.60	0.08	<0.9	<1	20	59	17818	2.29	37.68	3.40	1.18	0.57	224.15	27	113
458	508	678444	5604646	45.50	0.17	1.26	2	23	51	17188	0.79	37.14	4.31	1.67	0.52	266.93	21	98
459	509	678693	5603631	47.70	0.04	<0.9	<1	11	31	4478	0.84	19.70	2.53	<0.9	<0.5	116.04	9	51
460	511	678691	5602701	65.80	0.08	INF	<1	12	38	4453	1.01	20.18	2.59	INF	INF	89.44	10	69
461	512	678580	5601743	48.10	0.05	<0.9	1	10	22	4622	0.60	21.87	2.27	<0.9	<0.5	100.38	10	64
462	513	667857	5572346	35.80	0.31	3.03	3	39	46	23999	1.58	27.57	7.43	<0.9	0.55	217.40	34	164
463	514	672823	5576444	30.30	0.12	<0.9	2	40	36	54295	2.45	25.34	5.69	1.10	0.74	200.64	45	170
464	515	676183	5583355	65.25	0.02	INF	2	15	53	14348	2.42	32.04	3.70	INF	INF	31.89	10	102
465	516	674770	5588170	46.60	0.08	<0.9	<1	17	24	9535	0.84	24.66	4.39	<0.9	<0.5	74.25	14	63
466	517	677563	5597234	63.30	0.09	<0.9	<1	17	24	11389	0.85	15.99	4.49	1.09	<0.5	116.28	27	81
467	518	679709	5607228	39.40	0.24	<0.9	2	34	66	28043	1.10	34.60	7.03	<0.9	0.54	253.15	31	177
468	519	678232	5607438	34.00	0.02	<0.9	2	18	47	21075	1.97	32.28	2.88	<0.9	0.54	82.68	18	87
469	521	677346	5608227	45.70	0.15	INF	1	43	82	29179	1.79	33.84	7.47	INF	INF	153.19	40	177
470	522	678797	5608308	66.60	0.04	INF	<1	12	37	3183	0.84	15.18	2.66	INF	INF	48.27	10	60
471	523	678355	5608955	60.30	0.06	<0.9	2	24	67	8643	0.66	29.10	2.54	1.14	0.65	54.71	21	75
472	524	678396	5609237	61.50	0.03	INF	<1	16	49	5155	1.10	27.97	3.22	INF	INF	49.58	13	68
473	525	680261	5608993	60.10	0.13	INF	3	14	80	8795	1.02	17.62	3.24	INF	INF	66.77	19	172
474	526	679459	5609927	52.00	0.07	INF	2	34	49	16149	0.71	26.72	3.54	INF	INF	95.50	31	151
475	527	677165	5609946	56.70	0.03	<0.9	2	13	23	11302	0.68	42.11	1.91	<0.9	<0.5	49.20	10	161
476	528	677231	5611914	54.10	0.07	<0.9	1	45	33	14374	1.01	19.35	3.53	<0.9	<0.5	209.31	38	85
477	529	678552	5613467	45.00	0.03	INF	<1	37	20	20291	0.84	26.40	3.19	INF	INF	114.51	27	145
478	531	678948	5613226	63.10	0.02	INF	<1	20	24	11616	3.28	20.28	3.14	INF	INF	90.10	16	84
479	532	670647	5609039	77.70	0.06	INF	<1	16	34	7104	2.36	15.26	2.39	INF	INF	155.13	15	78
480	533	671418	5609176	60.40	0.02	INF	<1	12	19	7512	2.34	12.11	2.31	INF	INF	118.04	18	56

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method ---------->		Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units ---------->		%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit ---------->		0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
481	534	678657	5612164	60.60	<0.02	INF	INF	26	25	12826	2.42	31.40	3.30	INF	INF	95.64	14	118
482	535	678256	5612489	55.10	0.05	<0.9	<1	39	28	23959	1.38	27.69	3.92	<0.9	<0.5	131.31	28	164
483	536	677411	5612629	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
484	537	671288	5572783	67.40	0.08	INF	INF	33	15	5352	1.48	18.79	4.00	INF	INF	32.42	16	82
485	538	675154	5580052	25.00	0.09	1.89	34	29	27	26302	1.56	15.86	3.44	1.40	0.64	158.25	30	104
486	539	674050	5588150	66.40	0.05	INF	<1	16	28	8298	1.96	19.56	3.98	INF	INF	71.71	12	62
487	541	675326	5593876	34.40	0.08	<0.9	2	32	26	27977	0.95	24.60	3.80	<0.9	<0.5	166.05	32	112
488	542	676671	5599427	47.55	0.05	<0.9	1	17	28	10040	0.98	19.52	3.66	<0.9	<0.5	93.48	14	87
489	543	675777	5603816	66.80	0.04	INF	<1	10	26	3852	1.39	18.82	4.30	INF	INF	122.78	7	60
490	544	676362	5605650	43.90	0.06	<0.9	2	27	55	13037	2.74	26.68	5.34	<0.9	<0.5	67.79	18	75
491	545	675656	5607779	32.70	<0.02	<0.9	2	24	14	12142	0.69	16.63	2.45	<0.9	<0.5	68.26	18	117
492	546	676245	5608512	47.00	0.04	INF	<1	34	20	17098	0.73	22.34	3.34	INF	INF	95.99	24	174
493	547	676027	5609176	54.40	0.04	INF	2	32	23	14773	1.20	29.41	3.84	INF	INF	100.34	22	155
494	548	676643	5612565	81.70	0.04	INF	INF	13	14	2901	2.57	8.71	2.20	INF	INF	18.65	15	70
495	549	676513	5613756	77.00	0.05	INF	INF	16	19	7251	2.34	11.35	3.12	INF	INF	52.38	32	67
496	551	676753	5614204	NM	0.03	INF	INF	19	12	9896	2.82	11.47	2.09	INF	INF	40.22	17	79
497	552	677200	5614074	66.20	0.09	INF	<1	15	55	6862	3.55	10.78	2.89	INF	INF	70.05	37	69
498	553	678251	5614486	64.30	0.08	INF	1	18	37	7019	1.16	9.32	2.02	INF	INF	165.31	25	73
499	554	679906	5614627	51.90	0.07	<0.9	2	39	25	26056	1.34	31.21	4.47	<0.9	<0.5	181.44	40	165
500	555	680858	5614476	50.50	0.10	INF	1	41	25	23791	0.86	25.22	5.90	INF	INF	194.99	36	185
501	556	680693	5615599	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
502	557	681521	5616312	55.20	0.06	<0.9	<1	22	21	4703	0.71	18.26	3.43	<0.9	<0.5	83.43	12	62
503	558	682195	5616778	46.10	<0.02	<0.9	<1	18	15	4931	0.85	17.11	2.08	<0.9	<0.5	64.88	10	57
504	559	682896	5617101	63.30	0.05	INF	<1	13	19	2873	1.64	21.09	2.83	INF	INF	92.81	9	55
505	561	678885	5615770	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
506	562	679495	5616515	46.50	0.08	<0.9	<1	42	25	25623	1.04	23.93	6.37	<0.9	<0.5	193.65	42	159
507	563	680295	5617265	NM	0.06	<0.9	1	19	25	4429	1.38	22.22	1.73	<0.9	<0.5	94.83	11	80
508	564	681076	5617999	63.90	<0.02	INF	<1	18	11	3306	2.12	18.17	3.74	INF	INF	76.92	13	82
509	565	681775	5618673	57.80	0.06	INF	1	44	22	13309	0.53	21.21	3.67	INF	INF	204.51	26	75
510	566	681849	5619936	53.35	<0.02	0.95	<1	27	15	6452	0.76	22.65	2.25	1.07	0.92	141.07	14	63
511	567	681246	5620069	19.40	<0.02	<0.9	<1	22	12	9597	0.72	10.96	2.68	<0.9	<0.5	88.08	23	35
512	568	680415	5620819	52.90	0.08	<0.9	3	27	30	4283	0.90	17.83	2.20	<0.9	<0.5	168.13	14	44
513	569	680413	5618473	61.00	<0.02	INF	1	11	12	3640	1.79	10.51	2.05	INF	INF	36.66	12	60
514	571	678652	5616580	75.50	0.09	INF	3	21	19	20328	0.92	12.98	3.49	INF	INF	37.12	22	107
515	572	678695	5616906	68.20	0.04	INF	INF	25	37	9780	2.03	24.73	3.37	INF	INF	136.43	13	83
516	573	678605	5617200	72.80	0.08	INF	1	21	20	3342	0.75	12.62	5.02	INF	INF	57.38	11	189
517	574	678556	5617546	72.70	0.06	INF	INF	24	18	4141	0.78	13.68	2.64	INF	INF	34.97	13	56
518	575	678524	5617892	72.70	0.05	INF	2	30	26	10262	2.07	13.59	2.42	INF	INF	197.02	27	51
519	576	678434	5618569	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
520	577	679495	5619069	60.15	0.05	<0.9	<1	51	16	6266	0.30	19.65	7.08	1.17	<0.5	66.80	16	29
521	578	678598	5620591	6.90	<0.02	<0.9	1	8	7	4318	1.04	10.10	3.59	<0.9	<0.5	19.54	6	94
522	579	677456	5618622	73.40	0.10	INF	<1	40	34	61642	1.23	30.10	6.92	INF	INF	354.59	58	160
523	581	676304	5619471	62.25	0.08	INF	<1	9	15	5783	2.11	10.79	2.14	INF	INF	120.39	10	87
524	582	676498	5618430	66.70	0.06	INF	1	14	13	3127	1.22	8.94	2.23	INF	INF	39.23	11	67
525	583	674443	5618567	76.00	0.04	INF	<1	10	11	4519	0.73	7.20	2.57	INF	INF	37.99	12	57
526	584	674468	5618215	77.50	0.04	INF	<1	9	11	4500	0.76	7.56	2.71	INF	INF	39.02	12	55
527	585	673820	5617755	75.00	0.04	INF	1	15	13	6377	1.44	8.53	2.85	INF	INF	45.79	14	66
528	586	673010	5616385	73.70	0.02	INF	<1	10	10	2806	1.83	8.92	2.89	INF	INF	30.75	8	56
529	587	672852	5615064	78.50	0.04	INF	<1	12	17	5153	2.08	10.23	2.01	INF	INF	80.37	15	76
530	588	673720	5615827	70.65	0.04	INF	2	12	15	5672	1.84	9.86	2.70	INF	INF	62.80	13	78
531	589	674337	5615249	72.80	0.04	INF	<1	10	17	3468	1.12	11.93	3.10	INF	INF	67.20	9	61
532	591	674765	5616516	54.30	0.06	<0.9	<1	10	20	2428	1.53	7.65	1.81	<0.9	<0.5	96.66	19	51
533	592	675765	5616112	75.50	0.03	INF	<1	7	14	3567	2.40	8.24	1.62	INF	INF	74.33	9	84
534	593	676049	5615667	78.40	<0.02	INF	<1	9	18	4768	3.02	9.99	2.29	INF	INF	75.91	10	87
536	595	675548	5614271	74.00	0.03	INF	<1	11	9	5874	2.26	8.43	2.75	INF	INF	44.76	18	58
537	596	674501	5613198	77.40	0.03	INF	1	7	10	1919	1.89	8.78	2.25	INF	INF	23.03	6	73
538	597	673556	5613647	57.40	0.09	<0.9	2	17	19	8891	0.75	14.71	3.72	<0.9	<0.5	89.66	16	97
539	598	672333	5614230	57.20	0.15	INF	2	21	39	11556	1.56	14.60	3.60	INF	INF	274.41	54	123
540	599	672529	5614481	78.60	0.05	INF	<1	8	24	3991	1.55	14.11	2.56	INF	INF	60.87	15	89
541	601	671245	5615769	79.75	0.05	INF	<1	7	27	2235	1.74	13.90	1.74	INF	INF	33.10	6	112
542	602	670150	5616217	62.60	<0.02	<0.9	<1	8	12	3413	0.95	16.56	2.12	<0.9	<0.5	73.54	7	38
543	603	669206	5614418	76.20	0.02	INF	INF	14	19	5119	1.04	18.91	2.76	INF	INF	118.77	9	70
544	604	669861	5614709	70.60	0.02	INF	<1	10	19	3807	2.62	13.60	2.66	INF	INF	89.76	10	65
545	605	670503	5614617	78.70	<0.02	INF	<1	5	28	2181	2.30	14.52	1.51	INF	INF	24.67	6	94
546	606	667561	5612318	44.40	0.11	<0.9	<1	25	26	20884	0.89	16.19	5.13	<0.9	<0.5	231.45	31	121

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method ---------->		Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units ---------->		%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit ---------->		0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
547	607	669115	5613295	72.80	0.08	<0.9	<1	9	47	7900	2.00	16.43	3.86	<0.9	<0.5	97.53	24	96
548	608	670335	5613850	77.20	<0.02	INF	<1	6	9	1998	1.73	7.68	2.68	INF	INF	25.73	7	59
549	609	671326	5613506	75.70	<0.02	INF	<1	8	13	3238	1.78	12.32	4.62	INF	INF	49.34	7	82
550	611	669116	5611441	74.40	<0.02	INF	<1	5	13	1619	1.52	17.50	1.57	INF	INF	31.80	<5	36
551	612	670797	5611365	79.90	<0.02	INF	<1	<4	11	1316	1.63	10.44	1.82	INF	INF	18.06	<5	42
552	613	670661	5609633	40.20	0.20	3.32	6	34	49	19917	1.55	30.90	4.83	1.21	0.64	197.65	26	147
553	614	670339	5609306	85.00	<0.02	INF	INF	12	12	2052	1.88	13.50	2.86	INF	INF	19.68	<5	84
554	615	670646	5602964	89.90	<0.02	INF	<1	5	13	3691	3.45	6.07	1.52	INF	INF	15.25	<5	142
555	616	667245	5574155	44.00	0.23	2.97	5	30	41	11868	0.96	22.21	6.60	1.07	<0.5	177.11	21	98
556	617	667501	5575005	72.50	<0.02	<0.9	<1	6	28	1862	1.26	4.74	3.07	1.23	<0.5	34.83	16	46
557	618	668833	5575696	42.70	0.21	INF	4	45	64	47561	4.30	35.56	7.74	INF	INF	316.47	48	235
558	619	669339	5576769	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
559	621	670531	5578130	41.80	0.15	2.82	2	37	52	41830	3.12	29.26	7.36	2.03	0.75	207.13	34	125
560	622	671153	5578697	51.90	0.04	INF	3	17	79	7446	2.84	39.66	2.99	INF	INF	189.95	10	64
561	623	670556	5579117	46.40	<0.02	1.39	2	14	41	5642	1.16	26.96	2.14	<0.9	<0.5	115.32	6	49
562	624	670029	5579968	55.30	<0.02	<0.9	3	8	20	2613	0.60	23.89	1.51	<0.9	<0.5	61.86	<5	53
563	625	671261	5580506	29.75	0.19	3.44	4	27	32	18356	0.94	33.97	5.98	<0.9	0.62	145.79	18	142
564	626	672621	5582263	42.90	0.28	4.50	8	22	37	10668	0.51	26.17	11.14	<0.9	<0.5	162.99	12	143
565	627	670483	5584247	48.80	0.23	<0.9	3	20	44	8131	1.18	23.07	4.61	<0.9	<0.5	149.00	18	75
566	628	669971	5584796	48.30	0.16	2.77	4	19	35	8785	2.01	19.16	3.74	<0.9	<0.5	114.41	15	71
567	629	669670	5585468	47.70	0.14	2.54	2	15	32	5887	2.55	17.07	2.95	<0.9	<0.5	88.02	12	57
568	631	669908	5585814	45.00	0.14	INF	3	17	37	6569	2.49	21.36	3.29	INF	INF	100.66	12	59
569	632	670542	5585457	54.70	0.13	<0.9	2	21	26	9408	0.90	18.39	3.73	1.05	<0.5	117.21	20	82
570	633	671377	5586283	29.75	0.07	INF	2	28	17	10418	1.02	21.66	4.24	INF	INF	87.48	16	69
571	634	672132	5586130	52.80	0.19	0.96	2	23	76	18634	1.18	29.53	2.76	1.23	0.52	185.61	22	283
572	635	672447	5586904	37.70	0.07	<0.9	<1	<4	26	1421	1.38	13.22	0.86	<0.9	<0.5	43.89	<5	28
573	636	671747	5586636	65.70	0.41	INF	3	11	55	26578	2.00	25.41	2.37	INF	INF	75.48	16	126
574	637	671410	5587843	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
575	638	673085	5589812	51.10	0.24	<0.9	1	23	25	11024	0.78	20.90	4.28	<0.9	0.64	96.43	16	92
576	639	674143	5590646	41.70	0.33	<0.9	1	27	26	15451	0.73	27.46	4.95	<0.9	<0.5	112.63	19	119
577	641	674556	5591552	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
578	642	674867	5593198	24.80	0.12	<0.9	2	22	16	25793	0.68	16.91	3.52	<0.9	<0.5	137.14	26	97
579	643	674480	5593603	49.50	0.14	<0.9	<1	11	19	6088	1.02	14.01	2.42	<0.9	<0.5	104.40	13	55
580	644	674266	5594209	49.45	0.08	<0.9	<1	11	11	7739	0.62	8.91	4.24	<0.9	<0.5	137.41	14	98
581	645	673649	5594701	46.50	0.13	<0.9	<1	12	15	4943	0.68	10.17	4.36	<0.9	<0.5	126.86	12	40
582	646	674510	5594806	45.70	0.09	<0.9	5	16	12	11558	0.65	10.49	8.42	<0.9	<0.5	116.76	17	110
583	647	675612	5594640	58.80	0.10	INF	5	10	34	2931	3.17	17.03	1.74	INF	INF	169.66	7	51
584	648	675577	5595555	52.90	0.09	INF	<1	18	16	6602	0.91	15.83	3.55	INF	INF	134.56	15	50
585	649	674872	5596716	61.30	0.10	INF	<1	13	16	5445	1.14	13.43	3.67	INF	INF	83.62	10	59
586	651	674357	5598209	51.50	0.06	INF	<1	21	10	7212	1.62	8.96	3.59	INF	INF	79.01	54	111
587	652	674244	5599686	56.55	0.14	<0.9	<1	15	25	10121	0.63	12.59	6.28	<0.9	<0.5	129.83	24	75
588	653	676315	5599865	43.20	0.10	<0.9	<1	18	22	9645	0.42	18.98	3.08	<0.9	<0.5	109.25	12	84
589	654	676771	5600368	44.40	0.11	<0.9	3	21	32	11278	0.95	23.73	3.81	<0.9	<0.5	132.40	16	99
590	655	676034	5601358	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
591	656	675422	5600656	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
592	657	673934	5600722	49.20	0.03	INF	<1	5	12	3945	1.09	14.37	1.56	INF	INF	55.53	<5	53
593	658	673438	5601030	69.10	0.21	<0.9	<1	9	37	12767	4.58	9.42	5.05	<0.9	<0.5	206.42	33	114
594	659	673743	5601576	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
595	661	673690	5602807	42.10	0.09	<0.9	<1	11	17	5970	1.27	7.02	4.36	<0.9	<0.5	100.58	10	35
596	662	674826	5601772	50.75	0.23	<0.9	<1	21	35	11431	1.74	12.81	9.22	<0.9	<0.5	300.90	30	99
597	663	675190	5602953	44.45	0.25	<0.9	4	26	40	19636	1.01	17.67	8.01	<0.9	<0.5	424.70	25	141
598	664	676406	5603828	49.60	0.14	<0.9	1	8	28	2707	1.01	15.91	2.12	<0.9	<0.5	99.73	6	38
599	665	676900	5605048	50.60	0.27	<0.9	<1	12	69	3276	1.01	19.69	5.07	1.12	0.78	58.04	7	56
600	666	674185	5604548	57.50	0.14	<0.9	3	8	16	3398	1.36	16.64	2.41	<0.9	<0.5	61.01	7	54
601	667	672305	5605216	57.60	0.08	INF	<1	16	22	10265	1.67	11.99	3.02	INF	INF	93.53	23	93
602	668	672597	5605697	54.00	0.10	INF	<1	19	16	7974	1.34	12.98	2.92	INF	INF	83.43	20	81
603	669	671991	5606021	59.40	0.09	INF	<1	19	36	15775	6.60	14.17	3.16	INF	INF	93.91	23	80
604	671	670992	5605790	49.60	0.07	<0.9	<1	19	20	8226	0.89	17.44	2.79	<0.9	<0.5	75.08	15	71
605	672	670499	5606383	78.80	0.06	INF	2	10	17	2274	1.93	10.03	4.10	INF	INF	34.26	7	43
606	673	669956	5605323	61.40	0.04	INF	<1	6	12	1813	1.74	12.13	1.61	INF	INF	29.22	<5	46
607	674	670577	5604680	48.50	0.11	INF	<1	29	31	14358	1.24	20.36	3.78	INF	INF	108.08	24	149
608	675	671442	5604970	52.60	0.09	INF	<1	17	21	8013	1.74	11.62	3.16	INF	INF	106.46	20	84
609	676	670461	5603859	47.40	0.06	INF	<1	15	20	7312	1.02	15.60	2.22	INF	INF	76.42	15	61
610	677	671435	5603413	51.10	0.08	INF	<1	6	11	2485	2.51	5.97	2.66	INF	INF	42.06	7	65
611	678	671076	5602644	52.30	0.09	INF	1	8	15	2616	2.57	11.44	2.22	INF	INF	72.86	8	55

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
612	679	669875	5601907	47.20	0.14	<0.9	1	16	27	8901	0.77	17.10	2.63	<0.9	<0.5	150.51	20	54
613	681	670223	5601565	46.25	0.12	<0.9	2	18	30	9623	0.81	17.92	2.56	0.96	0.53	160.83	21	62
614	682	669534	5600968	42.40	0.10	<0.9	<1	19	32	10008	0.52	15.36	3.65	<0.9	<0.5	165.53	17	61
615	683	671020	5600408	86.60	<0.02	INF	INF	5	10	1357	1.37	12.14	1.89	INF	INF	10.42	<5	47
616	684	672329	5600281	70.20	0.04	INF	<1	9	17	5002	2.05	9.67	2.68	INF	INF	34.16	10	88
617	685	672446	5599526	65.35	0.08	<0.9	<1	14	41	8885	0.88	13.39	2.74	<0.9	<0.5	89.31	19	82
618	686	671488	5598987	40.90	0.06	<0.9	2	12	30	6409	0.30	15.54	2.17	<0.9	<0.5	80.81	7	54
619	687	672215	5598876	14.30	0.03	<0.9	1	23	27	21804	0.68	17.84	3.12	<0.9	0.58	85.13	25	54
620	688	672729	5598836	34.20	<0.02	<0.9	<1	13	19	6039	1.22	13.19	2.96	<0.9	<0.5	63.77	12	57
621	689	672598	5597650	50.30	0.05	<0.9	<1	10	25	5114	0.80	16.04	3.29	<0.9	<0.5	110.61	10	48
622	691	673187	5597318	74.00	0.06	INF	<1	10	13	11284	0.89	6.63	3.35	INF	INF	80.75	12	59
623	692	673598	5592720	27.10	0.03	<0.9	<1	17	16	10131	0.98	14.74	2.45	<0.9	<0.5	94.91	18	53
624	693	672300	5592252	39.60	0.04	<0.9	<1	17	15	11821	0.72	15.58	3.29	<0.9	<0.5	109.35	16	68
625	694	671993	5591626	45.00	0.05	<0.9	<1	20	19	12673	0.70	20.07	4.35	<0.9	<0.5	108.45	16	71
626	695	673598	5586125	53.20	0.16	<0.9	<1	23	34	10510	0.84	21.08	4.89	1.18	0.62	103.80	15	71
627	696	673484	5583739	57.70	0.16	INF	2	17	48	6713	1.38	26.43	4.57	INF	INF	77.88	11	99
628	697	673643	5582271	53.60	0.03	<0.9	2	9	22	3392	1.13	22.40	2.08	<0.9	<0.5	58.32	<5	45
629	698	673345	5581716	43.10	0.09	1.63	3	26	25	14316	0.46	19.71	12.10	1.08	0.71	147.11	22	107
630	699	672788	5579174	59.80	0.12	INF	1	16	48	6331	0.91	27.78	2.22	INF	INF	111.55	12	64
631	701	672313	5575936	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
632	702	672035	5575261	28.50	0.11	<0.9	<1	18	19	8890	0.91	14.36	5.87	<0.9	0.54	46.98	15	46
633	703	672016	5575131	56.45	0.14	<0.9	1	15	38	14255	1.86	25.86	5.11	2.58	0.93	150.58	21	72
634	704	671525	5574923	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
635	705	671603	5574457	25.10	<0.02	<0.9	<1	17	8	7100	0.80	12.07	2.69	<0.9	<0.5	64.90	10	49
636	706	671701	5574464	52.70	0.03	INF	<1	16	12	1527	1.33	11.33	1.25	INF	INF	41.49	6	15
637	707	671193	5573658	68.40	0.07	INF	1	15	26	25231	5.23	10.83	2.40	INF	INF	53.58	20	61
638	708	671514	5572942	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
639	709	674678	5578473	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
640	711	673635	5579075	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
641	712	674579	5579483	36.50	0.17	<0.9	<1	33	33	22820	1.70	18.38	5.29	0.96	0.54	192.83	29	100
642	713	670291	5581144	49.40	0.22	11.82	13	18	50	7790	5.44	26.54	3.05	1.72	0.51	96.34	12	66
643	714	669637	5581224	36.60	0.49	11.45	17	33	76	22516	4.09	29.06	6.46	1.56	0.50	214.51	28	163
644	715	668914	5581756	40.70	0.54	8.96	13	33	67	18522	4.45	27.34	6.62	1.43	<0.5	220.12	23	134
645	716	670267	5582058	35.20	0.51	13.17	13	34	76	23701	5.17	31.54	6.53	1.95	0.59	221.50	27	166
646	717	671438	5584808	49.80	0.09	<0.9	<1	12	20	4368	0.71	19.36	2.87	<0.9	<0.5	80.99	7	51
647	718	667808	5584922	43.70	0.09	<0.9	2	23	24	9381	1.14	18.89	4.00	<0.9	<0.5	72.60	15	78
648	719	668137	5585721	39.10	0.13	1.18	2	30	28	11710	1.60	25.14	4.60	<0.9	<0.5	94.81	18	98
649	721	668555	5586961	44.00	0.09	1.52	2	20	31	9635	2.74	19.81	3.50	1.16	<0.5	89.11	14	68
650	722	669461	5586540	32.85	0.05	3.86	3	15	27	14093	11.33	15.54	3.63	1.32	0.60	53.27	14	48
651	723	670261	5586902	48.30	0.11	1.71	3	22	42	8859	2.24	25.22	3.55	<0.9	<0.5	92.24	13	69
652	724	669749	5588735	60.10	0.05	<0.9	1	11	15	4090	1.27	17.08	3.98	<0.9	<0.5	39.22	10	77
653	725	668766	5590242	34.20	0.05	<0.9	<1	23	22	12186	0.66	13.36	4.01	<0.9	<0.5	89.90	21	65
654	726	668934	5591053	62.80	<0.02	<0.9	<1	15	23	8161	1.62	17.18	2.44	0.97	0.64	41.45	12	80
655	727	669385	5591917	81.40	<0.02	INF	<1	14	35	6311	1.71	10.50	2.89	INF	INF	28.50	21	99
656	728	669795	5592118	77.40	<0.02	INF	<1	11	7	8192	1.08	7.06	3.11	INF	INF	24.71	12	42
657	729	669651	5593229	43.40	0.14	<0.9	1	32	50	45934	1.71	15.38	4.95	2.70	1.23	213.99	64	120
658	731	670568	5593752	22.50	0.02	<0.9	<1	21	23	11506	0.48	10.94	2.95	<0.9	0.64	115.49	22	45
659	732	670592	5594388	12.10	0.02	<0.9	<1	17	19	15897	0.21	9.25	1.83	<0.9	<0.5	98.03	19	31
660	733	668776	5594042	32.00	<0.02	<0.9	2	16	9	7537	0.47	11.93	2.57	<0.9	<0.5	40.86	14	56
661	734	669039	5594785	18.10	<0.02	<0.9	<1	14	22	4306	0.21	13.27	1.72	<0.9	<0.5	72.40	7	33
662	735	670040	5594725	24.10	0.04	<0.9	<1	22	35	6923	0.54	14.44	3.10	1.40	0.72	96.75	15	53
663	736	671153	5595173	43.30	0.20	INF	<1	32	80	20522	0.98	16.74	4.22	INF	INF	286.21	47	99
664	737	671597	5595741	61.40	<0.02	<0.9	<1	10	13	2052	0.78	6.58	5.90	<0.9	<0.5	53.38	6	66
665	738	671301	5596035	50.85	0.24	<0.9	2	26	80	22154	1.44	17.76	5.59	0.98	0.60	327.15	58	82
666	739	671581	5596438	42.80	0.13	<0.9	3	25	50	15195	0.58	19.71	3.33	1.60	0.56	276.72	30	67
667	741	669293	5596505	35.80	0.07	INF	3	20	50	8267	0.32	13.03	2.97	INF	INF	159.36	14	46
668	742	668956	5597428	43.30	0.05	<0.9	1	14	32	4067	0.53	14.27	2.90	<0.9	<0.5	83.08	7	44
669	743	668762	5598157	61.05	0.15	<0.9	<1	14	60	6816	0.89	13.87	2.97	<0.9	<0.5	80.23	22	58
670	744	669236	5598350	47.80	0.08	<0.9	1	14	39	5085	0.91	17.85	2.30	<0.9	0.51	216.74	14	44
671	745	669725	5598947	43.30	0.25	<0.9	3	17	44	11850	0.87	12.79	3.84	1.19	0.55	302.82	32	62
672	746	669762	5599392	41.50	0.23	1.48	5	33	74	19293	1.20	20.87	3.31	3.86	1.28	330.19	52	110
673	747	668935	5599625	48.95	0.03	<0.9	<1	14	25	2789	1.02	15.45	1.88	1.36	0.61	56.79	8	50
674	748	668484	5599318	47.40	0.05	<0.9	<1	15	30	4749	0.55	17.54	2.78	<0.9	<0.5	81.61	10	52
675	749	669232	5600600	42.80	0.06	<0.9	1	17	30	8191	0.75	14.42	2.39	2.11	0.53	159.15	21	50
676	751	668239	5601197	63.40	0.04	INF	INF	14	33	3188	1.16	22.40	2.32	INF	INF	49.95	7	57

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
677	752	667622	5601963	44.40	0.04	<0.9	<1	14	30	4990	0.60	17.83	2.11	<0.9	<0.5	64.22	8	51
678	753	666808	5602550	61.00	0.05	0.93	<1	9	35	4730	1.42	15.72	3.19	<0.9	<0.5	62.54	13	51
679	754	666233	5602720	47.40	0.04	<0.9	3	13	29	6186	0.65	15.51	2.89	<0.9	<0.5	82.65	14	47
680	755	666480	5604289	30.20	0.04	<0.9	2	10	36	7746	1.56	11.48	1.31	<0.9	<0.5	169.04	12	32
681	756	667637	5604544	73.60	0.02	INF	1	8	11	4934	1.86	10.38	2.19	INF	INF	51.10	13	86
682	757	666934	5605493	52.70	0.02	<0.9	<1	12	26	4484	1.62	16.90	2.49	<0.9	1.30	96.46	14	54
683	758	668303	5605564	43.05	0.03	<0.9	<1	16	11	7265	0.62	9.43	3.01	<0.9	<0.5	60.95	22	66
684	759	666307	5606853	56.70	0.16	1.76	<1	23	90	5746	2.85	26.16	11.12	<0.9	<0.5	109.63	16	137
685	761	666991	5606599	50.40	0.20	<0.9	2	21	51	7219	1.11	16.63	7.26	<0.9	<0.5	189.39	30	57
686	762	667252	5607227	49.50	0.15	INF	<1	26	35	26028	0.85	17.44	10.16	INF	INF	197.22	37	113
687	763	667892	5607227	51.50	0.13	INF	<1	24	40	12561	0.85	17.39	4.85	INF	INF	193.65	22	107
688	764	669302	5607215	52.00	0.13	<0.9	<1	33	46	17366	0.94	25.26	3.89	1.18	0.55	195.51	29	126
689	765	669894	5607806	54.40	0.15	1.26	2	32	51	19945	0.82	26.21	4.18	2.32	0.62	241.77	36	130
690	766	670392	5608316	53.55	0.12	INF	<1	30	43	15927	0.70	25.32	3.45	INF	INF	189.06	26	148
691	767	668175	5608087	62.50	0.05	4.10	<1	13	18	4661	0.77	15.52	3.70	<0.9	<0.5	48.98	10	92
692	768	666865	5608029	49.20	0.04	4.15	1	14	48	6261	1.76	26.94	3.64	<0.9	<0.5	133.54	10	58
693	769	667054	5608963	43.10	<0.02	<0.9	<1	9	23	3013	1.10	17.41	2.65	<0.9	<0.5	67.64	6	41
694	771	666489	5609335	57.10	0.08	<0.9	<1	16	52	9894	2.03	26.17	2.96	<0.9	<0.5	122.29	13	72
695	772	664902	5610157	55.90	0.04	INF	2	10	21	3551	0.85	17.48	3.73	INF	INF	101.56	9	40
696	773	664276	5608761	47.80	<0.02	7.14	<1	6	14	2167	1.09	13.72	1.93	<0.9	<0.5	42.18	<5	37
697	774	665049	5607727	42.40	0.06	5.60	3	24	22	11986	0.58	25.36	3.18	<0.9	<0.5	96.99	17	108
698	775	665740	5608062	50.20	0.17	INF	<1	26	36	7876	1.19	23.25	3.72	INF	INF	138.13	23	96
699	776	665918	5608679	49.00	0.08	4.37	3	23	25	9106	0.70	21.81	2.59	<0.9	<0.5	146.67	14	85
700	777	665607	5606756	43.00	0.21	INF	1	34	62	11638	1.07	29.42	7.78	INF	INF	168.33	21	110
701	778	665527	5602623	85.50	0.03	INF	<1	8	7	1751	1.04	6.92	2.00	INF	INF	19.77	7	76
702	779	665180	5602540	60.55	0.06	<0.9	<1	12	46	5271	1.95	11.09	2.53	2.22	0.63	217.47	24	48
703	781	665589	5602316	51.40	0.08	37.44	<1	18	37	7854	0.72	15.58	3.85	<0.9	<0.5	88.81	24	50
704	782	667011	5599170	56.10	0.10	8.14	<1	19	36	9482	0.62	21.11	4.56	0.93	0.70	103.80	16	52
705	783	667541	5598065	55.70	0.15	<0.9	<1	21	35	8416	1.28	16.76	3.62	0.95	0.56	113.14	27	76
706	784	667454	5597068	58.80	0.12	<0.9	<1	14	31	8286	0.96	16.66	3.89	<0.9	<0.5	81.68	22	62
707	785	666923	5596945	61.50	0.08	<0.9	1	13	61	3644	0.79	11.43	2.49	1.61	<0.5	65.50	12	56
708	786	667483	5581441	48.10	0.21	1.60	1	23	32	11094	2.46	18.92	5.91	<0.9	<0.5	152.51	26	104
709	787	668134	5581430	44.05	0.12	10.77	2	15	27	7819	3.49	16.73	4.10	<0.9	<0.5	97.49	14	53
710	788	668858	5578961	57.10	0.20	4.40	4	23	49	12460	1.36	16.67	9.69	1.26	0.50	122.76	36	115
711	789	668196	5578995	41.60	0.06	<0.9	1	10	35	4424	1.15	21.95	2.04	<0.9	<0.5	69.00	6	42
712	791	668223	5579451	51.70	0.07	INF	1	15	31	4469	1.24	23.22	4.04	INF	INF	82.75	8	54
713	792	668179	5576966	50.90	0.11	2.53	3	10	27	3860	1.72	16.67	4.18	<0.9	<0.5	79.45	8	54
714	793	667546	5577352	66.30	0.06	INF	4	10	28	4970	0.88	34.77	3.29	INF	INF	26.51	5	91
715	794	667516	5578031	59.45	0.06	19.96	<1	8	35	2678	0.77	29.25	2.05	1.82	0.61	21.37	<5	86
716	795	668403	5577839	65.00	0.08	INF	1	13	27	5206	1.18	23.21	3.96	INF	INF	88.44	13	58
717	796	665742	5581479	43.90	0.06	1.40	<1	24	37	12710	4.32	20.28	3.40	1.21	0.92	104.26	21	61
718	797	666021	5581757	62.00	0.10	INF	6	26	78	32534	18.44	34.34	4.61	INF	INF	63.76	21	87
719	798	666716	5582389	40.50	0.18	2.90	4	30	38	16638	2.62	21.82	4.47	0.91	<0.5	128.81	27	129
720	799	667205	5583064	38.00	0.20	4.33	6	36	43	20091	1.84	26.48	4.59	1.29	0.59	133.81	28	138
721	801	667908	5583693	2.65	<0.02	<0.9	3	7	6	4732	0.62	5.64	0.84	<0.9	<0.5	31.62	7	15
722	802	668698	5583856	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
723	803	668462	5583340	41.00	0.14	INF	15	44	62	19673	7.79	36.92	4.28	INF	INF	109.03	25	112
724	804	669141	5583423	62.90	0.13	INF	11	19	85	18434	25.90	30.82	4.23	INF	INF	64.97	17	65
725	805	669016	5583170	67.40	0.14	INF	INF	23	79	16510	21.00	35.40	4.74	INF	INF	70.76	15	62
726	806	664358	5575145	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
727	807	661539	5582043	49.55	0.07	1.05	<1	17	26	7208	1.23	18.90	3.18	<0.9	<0.5	101.16	19	76
728	808	663357	5586070	64.80	0.03	INF	<1	19	20	6511	2.31	18.51	3.46	INF	INF	62.21	14	56
729	809	662649	5588234	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
730	811	665965	5594702	63.40	<0.02	INF	<1	11	16	6612	2.76	11.07	1.86	INF	INF	64.00	15	76
731	812	665172	5594793	46.20	0.04	<0.9	<1	18	47	6941	0.38	12.68	4.02	2.54	0.75	70.15	14	37
732	813	665574	5595135	58.00	0.03	<0.9	<1	12	36	3434	0.99	19.10	3.08	<0.9	<0.5	69.89	10	51
733	814	664333	5594972	48.30	<0.02	<0.9	<1	15	36	3917	0.82	20.61	2.07	<0.9	<0.5	58.21	8	39
734	815	664557	5595516	52.15	<0.02	<0.9	1	8	32	3011	0.83	9.78	1.54	<0.9	0.60	33.92	8	40
735	816	663908	5595994	60.80	0.04	<0.9	1	8	57	2666	1.03	12.46	1.87	<0.9	0.53	48.36	10	37
736	817	664151	5596259	43.55	0.03	<0.9	<1	16	25	6082	0.38	14.74	2.28	<0.9	<0.5	60.63	10	42
737	818	664522	5596199	52.70	0.08	<0.9	1	16	42	8910	0.99	16.99	3.43	<0.9	<0.5	84.03	27	74
738	819	664091	5596764	55.30	0.13	<0.9	5	17	55	7567	0.94	14.04	3.85	<0.9	<0.5	100.35	32	35
739	821	664496	5597214	65.70	0.07	<0.9	<1	9	49	5211	1.16	13.33	2.90	<0.9	<0.5	68.37	25	69
740	822	662974	5597432	59.30	0.07	<0.9	<1	17	36	8574	0.88	20.08	3.84	<0.9	<0.5	84.28	20	69
741	823	664620	5598422	57.10	0.12	<0.9	1	17	54	11048	1.03	15.14	3.67	1.00	<0.5	95.99	38	42

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
742	824	664076	5598710	50.20	0.03	<0.9	<1	12	35	3750	0.58	19.56	2.53	<0.9	<0.5	66.14	9	41
743	825	664957	5599496	50.00	0.05	<0.9	<1	11	46	3613	0.64	18.70	1.89	<0.9	<0.5	73.47	11	45
744	826	664964	5600540	45.95	<0.02	<0.9	1	9	43	2179	0.64	17.76	1.45	<0.9	<0.5	47.69	8	26
745	827	663039	5601014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
746	828	664403	5602158	49.10	<0.02	INF	1	13	28	4777	0.46	17.05	2.61	INF	INF	61.36	8	43
747	829	664591	5602669	59.40	<0.02	<0.9	1	8	16	7094	1.12	6.92	1.37	<0.9	<0.5	117.18	24	71
748	831	663048	5602872	55.25	0.06	INF	<1	17	50	5350	1.83	13.31	3.09	INF	INF	256.01	26	55
749	832	664162	5604197	34.60	<0.02	0.97	<1	13	11	9997	1.86	12.60	3.31	1.71	0.55	48.76	15	79
750	833	662422	5604596	32.60	0.08	<0.9	<1	30	30	21318	0.99	17.14	4.46	<0.9	<0.5	140.41	44	112
751	834	663490	5605496	39.10	0.07	<0.9	2	25	28	12462	0.85	18.34	3.82	<0.9	<0.5	118.57	26	97
752	835	664226	5605088	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
753	836	664790	5606120	20.00	0.06	<0.9	2	30	26	27931	0.66	17.76	3.47	1.00	<0.5	152.15	39	126
754	837	663943	5606917	27.50	0.07	<0.9	<1	27	24	25391	0.73	15.06	3.50	<0.9	<0.5	132.71	43	115
755	838	662975	5608746	68.05	<0.02	INF	<1	9	20	2320	1.80	17.12	1.95	INF	INF	46.13	5	59
756	839	663407	5608671	61.40	0.03	<0.9	<1	12	15	4679	0.86	13.87	3.38	<0.9	<0.5	63.26	12	49
757	841	663108	5607716	55.50	0.03	INF	<1	15	18	4391	1.48	14.94	1.96	INF	INF	111.03	13	52
758	842	660378	5606312	58.50	0.07	INF	<1	20	21	8865	0.87	16.00	3.14	INF	INF	110.41	16	82
759	843	659553	5605876	51.30	0.08	INF	2	18	30	12924	1.25	13.41	2.64	INF	INF	236.21	20	75
760	844	660808	5605888	64.00	0.02	INF	<1	10	16	3692	0.93	11.27	2.90	INF	INF	98.96	10	59
761	845	661998	5605659	54.00	0.15	INF	<1	26	26	13157	1.08	14.33	9.09	INF	INF	175.87	45	86
762	846	661241	5605454	70.40	0.09	INF	<1	15	25	10805	1.06	14.14	4.44	INF	INF	119.04	32	79
763	847	660872	5604013	60.10	0.03	INF	<1	11	15	4098	0.81	12.88	2.87	INF	INF	120.88	13	49
764	848	659850	5603703	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
765	849	658939	5603257	26.60	0.07	INF	<1	28	33	22880	1.14	16.52	4.78	INF	INF	193.46	43	109
766	851	658991	5601572	30.40	0.12	INF	<1	31	31	46460	2.09	20.36	4.91	INF	INF	200.56	43	123
767	852	659020	5601171	69.90	<0.02	INF	<1	10	11	4084	1.29	7.95	2.37	INF	INF	57.90	16	83
768	853	661396	5599835	52.00	<0.02	<0.9	<1	14	9	3165	0.46	7.56	3.26	<0.9	<0.5	39.37	11	16
769	854	661933	5599220	41.80	<0.02	<0.9	<1	15	35	5154	0.63	11.26	1.92	1.47	0.60	170.93	14	36
770	855	660665	5598809	40.10	0.02	<0.9	2	14	56	6815	0.85	21.87	2.01	0.95	<0.5	97.76	11	49
771	856	660497	5599472	71.40	0.10	INF	<1	12	13	4487	1.82	11.21	2.09	INF	INF	85.97	16	65
772	857	659315	5599224	37.50	0.06	<0.9	<1	21	18	10013	1.06	11.62	3.41	1.08	<0.5	107.10	31	74
773	858	659429	5597849	28.10	0.05	9.71	1	14	15	6809	1.25	10.65	1.72	1.42	0.60	76.04	13	45
774	859	659279	5597256	60.00	0.08	<0.9	1	12	10	7227	1.07	12.78	3.04	1.04	<0.5	78.96	21	75
775	861	658097	5597276	23.10	0.13	1.21	5	28	32	12672	0.52	19.29	4.13	1.03	<0.5	112.47	32	52
776	862	658078	5596642	26.30	0.12	1.20	<1	25	26	14597	0.49	20.71	3.64	1.04	0.72	126.34	28	70
777	863	658694	5596581	31.10	0.11	1.54	2	24	30	11743	0.59	27.04	2.15	1.21	<0.5	148.73	20	98
778	864	661640	5596547	41.25	0.17	1.34	4	30	47	14561	0.82	26.40	3.33	1.53	0.61	204.19	28	108
779	865	662691	5596650	61.30	0.11	<0.9	<1	18	45	4280	0.76	27.94	2.52	<0.9	<0.5	142.02	13	45
780	866	663254	5596771	51.80	0.16	2.02	3	23	53	7817	0.56	18.89	3.83	1.74	0.74	94.05	20	60
781	867	663303	5596536	52.15	0.14	INF	<1	12	49	3139	1.04	16.64	1.98	INF	INF	105.44	12	50
782	868	663546	5595203	62.00	0.16	INF	<1	17	54	5859	0.94	21.48	2.60	INF	INF	119.30	15	56
783	869	663251	5593811	48.10	0.10	INF	1	16	25	6871	0.42	11.07	2.80	INF	INF	53.69	12	30
784	871	663253	5593522	42.90	0.07	<0.9	<1	9	23	3088	0.35	13.27	3.98	<0.9	<0.5	32.82	5	24
785	872	664431	5584252	61.10	0.07	1.18	<1	15	31	5207	0.53	15.31	2.93	<0.9	<0.5	46.39	13	28
786	873	665225	5582633	60.90	0.09	INF	<1	8	27	1978	1.62	19.71	1.97	INF	INF	31.31	<5	60
787	874	666825	5579198	63.10	0.06	INF	<1	8	13	2840	1.70	16.65	2.60	INF	INF	21.40	5	83
788	875	666099	5576287	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
789	876	666920	5576092	49.80	0.13	INF	1	10	23	5202	0.63	17.76	2.47	INF	INF	91.32	6	44
790	877	667167	5573245	50.50	0.20	1.16	4	55	55	11523	0.72	24.23	5.36	<0.9	<0.5	185.18	29	125
791	878	677972	5574920	47.90	0.12	1.59	<1	15	20	8716	0.78	16.46	2.59	<0.9	<0.5	171.75	19	67
792	879	678650	5576962	42.50	0.11	2.06	2	28	27	15570	0.86	18.86	6.43	<0.9	<0.5	184.85	26	76
793	881	679989	5578359	52.00	0.12	1.21	2	19	29	8758	1.46	24.42	4.93	<0.9	0.79	260.08	15	71
794	882	680556	5579725	47.90	0.24	<0.9	2	28	32	18342	0.99	16.19	9.04	0.97	0.69	270.01	43	92
795	883	680145	5580262	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
796	884	679654	5580579	40.40	0.20	<0.9	3	29	34	15074	0.82	23.31	3.95	3.16	1.52	246.00	27	91
797	885	679558	5579703	63.30	0.15	INF	6	16	64	15520	4.74	28.35	5.06	INF	INF	129.12	19	56
798	886	678265	5579019	54.50	0.18	1.08	2	26	40	16730	1.46	19.09	13.23	4.26	1.68	204.34	31	65
799	887	678285	5580079	61.70	0.19	INF	<1	19	27	14206	2.34	18.26	4.09	INF	INF	155.14	22	65
800	888	678245	5581418	45.50	0.10	<0.9	1	18	23	8750	0.96	17.49	3.28	<0.9	<0.5	137.55	19	64
801	889	680998	5581283	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
802	891	680169	5582312	42.00	0.16	<0.9	<1	40	37	63579	3.61	26.88	11.34	1.44	0.86	304.07	70	209
803	892	679879	5581724	68.90	0.09	1.76	1	9	14	3465	1.13	16.48	3.29	2.84	1.26	60.92	9	56
804	893	682575	5583389	44.60	<0.02	<0.9	<1	13	17	5335	0.64	16.13	3.89	1.99	1.09	98.63	10	45
805	894	682045	5583566	70.30	0.13	<0.9	<1	13	29	8028	1.30	14.12	4.69	0.96	0.61	90.95	24	90
806	895	683213	5583849	62.60	0.16	2.21	1	19	29	12731	1.06	16.55	8.59	3.65	1.88	164.37	28	89

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
807	896	683769	5585575	59.70	0.16	INF	3	18	40	10686	1.60	24.52	5.80	INF	INF	161.09	15	65
808	897	683037	5584902	42.70	0.14	1.34	1	22	23	12042	0.59	23.44	8.40	3.07	1.92	169.05	16	83
809	898	683176	5584549	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
810	899	682370	5584449	42.90	0.19	<0.9	23	26	31	14696	0.83	26.42	12.84	2.46	3.05	187.66	21	98
811	901	681135	5583334	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
812	902	682479	5585396	46.80	0.14	<0.9	5	23	30	11169	0.70	22.93	6.98	<0.9	<0.5	148.84	17	76
813	903	683679	5586747	45.30	0.07	INF	<1	4	65	1899	1.51	13.16	0.66	INF	INF	30.73	8	37
814	904	683393	5586640	64.80	0.06	<0.9	2	7	153	1364	1.82	15.93	0.88	<0.9	<0.5	13.41	5	43
815	905	682912	5586530	47.40	0.20	2.36	1	29	55	14246	0.82	23.72	7.99	1.71	1.10	168.99	30	98
816	906	682645	5586690	68.80	0.08	INF	<1	7	49	2052	1.05	18.64	1.56	INF	INF	19.27	<5	47
817	907	681984	5586487	66.90	0.04	INF	1	4	24	1465	0.90	12.68	0.95	INF	INF	5.61	<5	51
818	908	682317	5586010	49.80	0.16	<0.9	3	21	60	11843	1.21	24.94	6.40	<0.9	<0.5	162.80	24	96
819	909	681939	5585664	49.40	0.17	1.24	2	22	44	13686	0.90	25.14	7.63	<0.9	<0.5	152.09	24	84
820	911	682625	5592318	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
821	912	683488	5588596	38.70	0.11	1.85	<1	23	35	13144	0.80	21.47	4.61	1.93	1.20	72.17	19	63
822	913	682389	5587814	47.90	0.09	INF	2	17	37	7894	1.29	23.84	3.68	INF	INF	64.71	13	61
823	914	681416	5587925	64.20	0.08	INF	<1	13	37	7746	1.67	23.06	4.16	INF	INF	46.50	10	49
824	915	680158	5588813	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
825	916	680264	5587441	25.70	0.09	<0.9	3	18	25	9608	0.68	14.62	4.05	<0.9	<0.5	64.84	16	50
826	917	681144	5586788	44.00	0.08	<0.9	1	16	42	7737	1.48	23.38	2.89	<0.9	<0.5	52.07	13	55
827	918	681168	5585700	58.00	0.15	1.42	3	17	141	8397	0.94	22.46	4.81	<0.9	<0.5	38.80	17	77
828	919	680817	5585762	58.30	0.09	1.73	<1	7	127	6696	1.62	32.27	1.93	1.14	<0.5	34.28	9	47
829	921	680120	5585957	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
830	922	678874	5586142	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
831	923	677743	5586100	13.40	0.06	<0.9	<1	10	15	7102	0.41	11.01	1.90	<0.9	<0.5	47.51	11	32
832	924	678417	5585460	60.60	0.07	INF	<1	6	60	4094	1.08	25.10	2.90	INF	INF	22.27	8	44
833	925	680061	5585163	58.60	0.07	INF	1	9	77	9589	1.69	32.93	2.03	INF	INF	28.44	9	57
834	926	679489	5585300	56.55	0.07	2.44	2	6	76	2973	0.82	25.17	1.63	<0.9	0.64	16.47	6	38
835	927	681035	5585029	62.70	0.12	INF	1	10	155	5436	1.30	30.16	1.78	INF	INF	30.10	11	52
836	928	680483	5584594	52.10	0.19	<0.9	5	25	147	62174	1.13	29.88	2.73	0.91	<0.5	63.33	32	117
837	929	679854	5584650	46.70	0.08	<0.9	<1	17	80	7182	0.86	25.11	3.11	<0.9	<0.5	28.52	11	56
838	931	679225	5584272	60.80	0.09	1.14	1	11	73	10394	0.94	25.03	2.35	<0.9	<0.5	30.14	14	59
839	932	678616	5584319	54.70	0.29	<0.9	3	25	166	8876	1.16	29.63	4.38	<0.9	<0.5	62.25	21	146
840	933	679292	5583753	72.70	0.07	INF	<1	7	43	3130	0.68	14.69	2.76	INF	INF	13.76	8	65
841	934	678671	5583725	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
842	935	678038	5583959	61.40	0.12	2.85	<1	18	81	7963	0.64	19.82	6.00	1.08	<0.5	38.76	15	63
843	936	678797	5583377	56.90	0.42	INF	3	21	130	14250	0.92	28.19	2.88	INF	INF	53.22	27	149
844	937	678936	5583334	49.40	0.20	6.27	4	10	79	5254	0.71	25.12	1.88	18.04	16.19	36.32	9	68
845	938	678656	5582911	51.85	0.64	2.44	4	25	273	15028	1.37	42.87	2.58	6.89	3.20	41.78	19	154
846	939	679396	5583369	51.40	0.66	4.06	4	22	269	14165	1.37	27.92	2.36	6.77	3.95	37.99	19	194
847	941	679308	5583021	53.50	0.51	1.37	5	26	132	9263	1.06	27.76	4.16	1.50	1.25	65.87	22	136
848	942	665167	5571756	45.40	0.18	0.92	1	22	24	13103	0.96	16.41	4.84	<0.9	0.97	109.86	35	88
849	943	664190	5572692	56.90	0.12	<0.9	<1	15	23	7234	0.73	16.78	3.15	<0.9	1.14	72.36	12	66
850	944	663785	5573497	45.70	0.12	<0.9	<1	18	23	8627	0.89	18.61	3.44	1.33	1.81	95.79	20	64
851	945	665552	5573257	54.10	0.15	INF	2	25	48	14778	1.38	19.77	4.40	INF	INF	84.85	20	79
852	946	665708	5574700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
853	947	666083	5575687	47.80	0.17	1.66	2	26	39	11060	0.72	22.01	3.66	0.94	0.77	153.40	19	87
854	948	663693	5575094	39.20	0.05	<0.9	<1	8	11	2741	0.84	11.39	1.64	<0.9	0.52	52.85	7	26
855	949	663948	5576727	36.50	0.07	1.14	<1	18	25	15115	2.67	18.24	2.55	1.67	1.10	70.34	46	50
856	951	664248	5577449	49.50	0.08	<0.9	<1	8	20	2164	1.05	13.03	2.02	<0.9	0.51	57.96	6	34
857	952	663581	5578466	51.00	0.09	INF	1	18	17	8362	1.10	18.31	3.44	INF	INF	81.66	19	70
858	953	662258	5580537	70.00	0.05	INF	<1	9	24	4337	0.98	15.44	2.71	INF	INF	26.15	7	61
859	954	662200	5580997	66.80	0.08	INF	<1	10	28	3855	1.20	19.84	2.22	INF	INF	52.11	9	75
860	955	661648	5583138	70.80	0.06	INF	2	13	23	5916	1.93	16.06	3.40	INF	INF	52.79	11	64
861	956	662833	5583179	69.20	0.10	INF	1	14	27	5825	2.08	18.71	5.09	INF	INF	52.57	12	76
862	957	662696	5584240	58.80	0.06	INF	<1	13	16	9166	2.37	14.58	2.69	INF	INF	71.50	16	70
863	958	663058	5585592	66.05	0.03	INF	<1	6	6	3195	4.57	4.37	1.41	INF	INF	13.32	14	47
864	959	661922	5585966	71.10	0.08	INF	<1	17	22	6076	1.14	18.96	2.32	INF	INF	53.77	10	50
865	961	661670	5586654	46.00	0.14	INF	4	75	40	18469	1.08	44.45	5.06	INF	INF	114.21	36	107
866	962	661924	5595124	51.30	0.08	<0.9	1	13	55	4635	0.72	16.01	1.83	<0.9	0.76	77.92	13	40
867	963	662934	5595318	48.85	0.04	<0.9	1	12	18	5497	0.34	12.68	3.60	<0.9	0.50	55.85	8	41
868	964	660173	5595503	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
869	965	659520	5594867	42.90	0.06	<0.9	<1	12	23	5216	0.44	14.09	9.42	1.44	1.39	63.65	9	46
870	966	659214	5593495	71.80	0.11	INF	<1	14	13	10240	1.20	11.71	4.22	INF	INF	84.13	31	97
871	967	659134	5593976	58.00	0.04	2.18	<1	15	12	8561	1.25	19.86	2.04	<0.9	0.66	117.73	17	77

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
872	968	658113	5594322	69.50	0.08	INF	2	13	16	6871	1.65	14.64	2.67	INF	INF	98.20	14	79
873	969	656699	5591798	43.30	0.10	<0.9	1	24	39	8575	0.86	28.26	2.56	<0.9	0.67	150.04	19	51
874	971	656318	5592457	52.00	0.16	5.70	2	34	44	8760	1.14	22.60	3.38	3.19	1.87	185.13	26	43
875	972	655403	5592835	58.60	0.29	2.76	3	29	52	24044	2.52	20.49	4.81	1.34	0.59	284.76	59	55
876	973	656655	5593832	49.30	0.14	2.15	1	28	24	13121	1.01	21.40	5.06	2.99	1.55	170.12	45	58
877	974	655276	5593899	58.90	0.11	2.06	<1	19	28	4809	1.70	21.84	2.63	2.34	1.04	169.54	20	51
878	975	654883	5593521	54.50	0.18	3.42	1	23	30	9586	1.32	15.34	4.30	2.73	0.79	158.91	37	46
879	976	654604	5593995	65.40	NM	NM	<1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
880	977	653857	5593663	50.60	0.17	1.70	2	29	32	12953	1.12	14.65	4.54	3.28	0.80	215.67	37	67
881	978	653321	5593773	47.10	0.13	1.02	1	25	22	12454	1.00	15.14	5.41	1.61	<0.5	202.92	34	60
882	979	653486	5594350	49.20	0.12	INF	2	28	24	15312	1.20	20.43	3.88	INF	INF	190.93	27	95
883	981	654503	5594694	55.60	0.09	INF	<1	22	26	9088	1.44	21.97	3.50	INF	INF	207.21	22	62
884	982	655572	5594751	62.30	0.10	INF	1	21	27	10984	1.50	18.92	3.40	INF	INF	147.79	18	81
885	983	657155	5595443	51.20	0.62	INF	2	23	25	7915	1.43	28.93	3.17	INF	INF	125.59	12	76
886	984	656437	5596238	52.20	0.17	1.58	<1	26	32	11392	0.82	17.03	4.82	2.26	<0.5	203.70	36	65
887	985	655144	5595475	66.60	0.06	INF	<1	18	40	7740	2.79	17.74	3.23	INF	INF	139.34	18	85
888	986	654290	5595220	63.10	0.11	INF	<1	23	31	7081	1.65	20.91	3.35	INF	INF	137.87	18	81
889	987	652997	5595808	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
890	988	652257	5596587	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
891	989	650752	5596167	84.90	0.02	INF	<1	11	10	3430	1.02	8.31	2.94	INF	INF	17.97	6	145
892	991	650341	5593385	59.80	0.09	1.06	<1	20	29	6763	0.95	21.07	3.40	1.89	<0.5	156.37	19	54
893	992	652822	5594906	65.00	0.08	INF	<1	15	24	4465	1.18	21.56	2.67	INF	INF	84.26	14	51
894	993	651999	5593630	48.10	0.13	2.47	<1	30	25	26072	0.90	17.66	6.56	2.70	<0.5	253.22	50	77
895	994	651596	5593230	58.50	0.06	1.37	<1	16	21	7131	0.97	18.74	3.59	3.88	1.14	145.03	18	55
896	995	651804	5592769	45.70	0.14	4.67	<1	25	24	12658	0.76	14.18	5.27	2.02	<0.5	197.65	35	63
897	996	652515	5592469	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
898	997	651727	5592451	50.60	0.13	INF	<1	25	33	9666	0.86	14.88	4.28	INF	INF	195.87	29	64
899	998	651226	5591731	62.00	0.08	INF	1	18	27	4509	1.11	21.30	2.54	INF	INF	175.35	15	45
900	999	650543	5591085	55.90	0.02	1.71	<1	11	13	4166	1.33	12.30	2.35	2.91	<0.5	58.08	11	41
901	1001	651728	5591140	46.70	0.11	1.25	1	25	50	6086	1.29	26.05	3.59	2.05	<0.5	132.00	22	50
902	1002	652266	5590392	53.10	0.09	INF	1	27	24	13652	1.07	26.10	5.52	INF	INF	165.86	21	60
903	1003	652451	5589970	46.20	0.14	<0.9	1	36	36	16754	2.48	23.46	5.88	1.70	0.57	246.84	30	77
904	1004	653348	5590240	71.10	0.13	INF	1	20	46	13772	4.55	17.97	4.71	INF	INF	132.32	38	97
905	1005	654220	5590134	37.30	0.13	1.70	1	53	38	18241	1.13	42.75	4.70	2.51	0.53	158.52	31	86
906	1006	653032	5591008	48.15	0.14	2.11	<1	41	52	14759	1.32	41.91	4.80	2.96	0.68	184.96	34	83
907	1007	653466	5591317	46.40	0.17	<0.9	<1	37	56	13444	1.15	50.47	3.75	1.37	1.04	187.19	28	94
908	1008	654550	5592211	48.40	0.06	<0.9	<1	12	23	3416	1.35	9.26	3.28	1.41	2.06	62.88	10	25
909	1009	654891	5591583	39.05	0.10	<0.9	<1	35	37	15207	1.02	23.84	4.02	<0.9	<0.5	147.85	32	86
910	1011	655030	5590334	51.70	0.08	INF	<1	49	46	15834	1.36	47.26	4.49	INF	INF	202.92	32	84
911	1012	655994	5590356	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
912	1013	656980	5591000	50.70	0.08	<0.9	1	27	46	6265	0.99	24.60	2.76	<0.9	<0.5	58.60	15	62
913	1014	657435	5590088	34.40	0.09	<0.9	<1	34	21	13766	0.48	18.16	2.99	<0.9	<0.5	108.07	23	67
914	1015	657949	5590378	68.80	0.10	INF	<1	19	53	4160	2.00	24.60	2.75	INF	INF	147.87	15	66
915	1016	658130	5588481	35.20	0.06	<0.9	<1	25	22	10871	0.64	16.46	4.01	<0.9	<0.5	85.39	18	58
916	1017	658356	5587356	37.60	0.17	INF	<1	55	44	48998	2.23	33.65	6.59	INF	INF	210.12	53	192
917	1018	660231	5587826	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
918	1019	660255	5586585	78.70	0.04	INF	INF	12	15	3236	1.70	12.55	2.44	INF	INF	21.18	7	79
919	1021	660923	5586446	46.60	0.11	INF	<1	84	42	20510	0.99	44.35	4.68	INF	INF	102.62	34	108
920	1022	660140	5585958	58.00	0.11	INF	<1	23	33	7410	1.21	21.48	4.36	INF	INF	66.37	11	71
921	1023	660513	5585296	64.40	0.14	INF	<1	28	53	7234	2.54	29.77	2.95	INF	INF	173.75	17	65
922	1024	661696	5584684	69.05	0.03	INF	<1	16	33	14686	4.50	15.69	2.43	INF	INF	75.52	18	60
923	1025	661198	5583898	77.30	0.05	INF	INF	11	33	4758	2.40	11.53	3.71	INF	INF	43.72	8	48
924	1026	660869	5582790	64.60	0.04	INF	<1	17	21	9870	2.43	13.90	8.68	INF	INF	58.26	13	54
925	1027	660541	5582127	55.10	0.15	INF	4	17	174	9844	2.83	25.57	2.23	INF	INF	128.12	14	60
926	1028	660390	5581983	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
927	1029	660857	5579353	60.00	0.07	<0.9	<1	10	30	3518	1.00	20.04	2.07	<0.9	<0.5	35.64	6	66
928	1031	661300	5578973	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
929	1032	660978	5577313	63.10	0.12	INF	1	9	31	3637	2.75	10.89	2.59	INF	INF	39.75	9	70
930	1033	661692	5577243	37.20	0.07	<0.9	1	12	14	5157	0.62	12.02	3.00	<0.9	0.68	49.72	7	57
931	1034	661919	5576594	40.80	0.14	<0.9	<1	16	12	6639	0.53	9.71	5.77	<0.9	<0.5	58.23	8	47
932	1035	662079	5575782	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
933	1036	661145	5575256	39.30	0.05	INF	<1	7	22	2479	0.67	9.15	1.29	INF	INF	27.61	<5	24
934	1037	661291	5574254	39.80	0.05	INF	INF	9	17	2733	0.94	8.45	1.66	INF	INF	49.17	5	24
935	1038	662803	5573318	50.30	0.13	<0.9	<1	9	25	6099	0.88	14.80	1.68	<0.9	<0.5	99.16	11	50
936	1039	662746	5572525	50.50	0.12	INF	2	20	49	17223	2.08	23.54	3.40	INF	INF	94.59	19	99

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method ---------->		Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units ---------->		%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit ---------->		0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
937	1041	661496	5571915	51.10	0.07	INF	2	19	36	7955	3.95	20.16	3.56	INF	INF	86.46	16	87
938	1042	662067	5571583	42.40	0.08	<0.9	<1	23	26	13246	1.28	21.29	3.53	<0.9	<0.5	103.49	24	126
939	1043	662970	5569791	41.90	0.07	<0.9	4	22	19	9247	0.59	17.53	2.66	<0.9	<0.5	75.96	13	81
940	1044	660643	5573912	38.60	0.04	<0.9	1	8	15	3054	0.56	11.26	1.83	<0.9	<0.5	52.97	<5	26
941	1045	660142	5573654	42.50	0.13	1.05	<1	18	28	6890	0.64	17.23	3.28	2.25	0.93	87.32	13	77
942	1046	660471	5577674	39.70	0.09	<0.9	<1	11	19	5358	0.48	11.58	2.94	<0.9	0.58	62.66	7	50
943	1047	660243	5578071	17.20	<0.02	<0.9	<1	15	12	7739	0.51	11.17	2.95	<0.9	<0.5	63.94	14	64
944	1048	659509	5577747	32.50	0.10	1.08	2	21	20	12698	0.68	16.68	3.59	1.65	1.13	90.24	20	114
945	1049	658580	5577248	65.70	0.10	<0.9	<1	15	27	6233	1.89	15.92	3.92	1.81	1.03	61.78	18	85
946	1051	657721	5576969	65.40	0.06	<0.9	<1	14	26	6078	1.33	16.72	3.50	<0.9	<0.5	73.87	14	64
947	1052	660900	5572471	64.05	0.25	<0.9	<1	10	36	5505	2.30	11.44	2.90	<0.9	<0.5	89.22	17	71
948	1053	674813	5581937	38.50	0.07	<0.9	1	34	35	11072	0.87	26.34	4.46	<0.9	0.64	87.16	14	52
949	1054	675365	5582531	27.50	0.12	<0.9	1	35	47	31710	1.81	28.63	7.14	<0.9	<0.5	159.90	35	132
950	1055	675365	5584597	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
951	1056	676348	5586061	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
952	1057	677980	5587974	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
953	1058	683313	5590484	38.10	0.08	INF	<1	30	38	12488	0.75	21.14	7.11	INF	INF	78.68	20	66
954	1059	683547	5591628	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
955	1061	684582	5595657	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
956	1062	685955	5596703	43.70	0.09	2.02	4	34	42	12729	0.94	24.83	6.03	1.40	0.86	81.44	21	74
957	1063	687395	5599102	51.20	0.06	INF	2	34	40	14226	0.90	27.80	5.96	INF	INF	70.49	21	72
958	1064	688759	5599932	62.00	0.04	INF	INF	32	54	11901	2.20	33.71	3.76	INF	INF	52.51	16	84
959	1065	687346	5600304	61.90	<0.02	INF	<1	20	45	10981	3.18	19.89	3.00	INF	INF	39.93	11	54
960	1066	686193	5601389	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
961	1067	686359	5602902	44.40	0.10	INF	<1	41	44	15518	1.25	27.73	5.02	INF	INF	98.70	26	88
962	1068	687738	5603084	71.10	0.04	INF	INF	28	65	10725	4.66	30.34	3.54	INF	INF	45.94	11	83
963	1069	686462	5605137	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
964	1071	685555	5605359	51.50	0.08	INF	2	30	49	14833	1.03	27.36	4.60	INF	INF	83.98	22	86
965	1072	684706	5602543	43.40	0.06	INF	<1	28	44	18337	1.36	25.06	5.21	INF	INF	80.63	24	85
966	1073	683502	5600009	33.70	0.06	2.40	3	28	37	19946	1.16	24.03	4.99	1.81	1.06	86.89	27	93
967	1074	685029	5598502	46.90	0.03	INF	1	18	53	12228	2.73	19.62	4.96	INF	INF	48.92	14	64
968	1075	682503	5598534	8.50	0.02	1.59	1	21	17	15276	0.47	14.86	4.42	1.06	0.76	81.67	20	45
969	1076	680542	5597780	46.60	0.05	INF	2	26	39	15067	1.09	27.15	4.84	INF	INF	95.24	19	99
970	1077	679581	5598408	65.90	0.05	INF	2	16	39	10358	1.40	27.78	3.58	INF	INF	127.34	13	90
971	1078	680679	5596130	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
972	1079	678436	5595481	70.40	0.06	INF	2	15	57	13127	3.23	20.74	3.90	INF	INF	81.74	15	75
973	1081	678435	5592833	42.20	0.11	INF	1	33	48	19792	1.01	25.24	6.37	INF	INF	101.19	24	99
974	1082	679085	5590554	37.00	0.09	3.48	4	36	51	31192	1.43	27.15	7.64	1.92	1.11	128.17	43	140
975	1083	673703	5585634	35.40	0.10	1.99	<1	27	32	14449	0.62	26.68	4.54	1.26	0.70	101.42	17	95
976	1084	674187	5584830	19.50	0.04	2.87	<1	21	18	11568	0.38	16.90	3.40	0.94	0.65	76.91	13	62
977	1085	674858	5583274	5.80	<0.02	1.82	<1	17	15	9776	0.62	12.55	2.89	1.26	0.94	60.04	16	43
978	1086	674198	5582074	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
979	1087	673134	5580436	77.20	0.06	INF	INF	23	57	6781	2.99	41.61	2.83	INF	INF	91.00	11	74
980	1088	660065	5572352	54.70	0.14	2.23	4	23	34	10668	0.98	20.81	3.82	<0.9	<0.5	171.78	22	65
981	1089	659671	5572735	42.80	0.13	1.50	1	20	24	8941	0.58	15.39	4.76	<0.9	<0.5	73.56	16	73
982	1091	658940	5572437	47.90	0.29	1.54	<1	21	33	12245	0.98	15.81	6.49	<0.9	<0.5	187.05	33	109
983	1092	657886	5572775	47.75	0.08	1.31	1	12	26	5322	0.68	13.51	4.03	<0.9	<0.5	128.51	11	31
984	1093	657282	5574505	48.70	0.15	4.25	<1	10	27	2829	0.84	7.78	1.97	1.35	0.73	52.59	12	37
985	1094	657838	5574752	55.60	0.42	1.70	<1	16	50	4916	1.25	12.28	4.21	<0.9	<0.5	104.75	25	70
986	1095	658781	5574180	42.25	0.11	<0.9	<1	18	22	8226	0.60	13.41	3.74	<0.9	<0.5	58.82	16	50
987	1096	660167	5574614	38.60	0.13	1.53	<1	20	26	11470	0.61	18.48	4.15	<0.9	<0.5	88.11	23	115
988	1097	659189	5576583	40.00	0.07	<0.9	<1	7	20	3685	0.55	8.74	2.30	<0.9	<0.5	58.99	7	30
989	1098	658725	5576478	60.60	0.24	2.64	2	21	53	8974	1.39	16.24	3.73	<0.9	<0.5	173.03	31	110
990	1099	657551	5580024	60.60	0.06	INF	1	16	40	7152	2.43	14.69	3.16	INF	INF	82.13	18	80
991	1101	658255	5580576	51.50	0.05	INF	1	18	32	7228	1.73	14.71	2.91	INF	INF	90.89	16	69
992	1102	659394	5581223	45.50	0.08	1.46	<1	18	21	16043	1.85	11.92	3.85	1.01	<0.5	60.98	24	64
993	1103	658911	5581997	48.20	0.05	1.84	2	17	45	7121	1.41	15.50	3.24	1.95	0.55	127.56	19	58
994	1104	658557	5582679	62.90	<0.02	INF	<1	13	10	5542	0.79	11.78	2.89	INF	INF	31.70	9	43
995	1105	658229	5583021	71.00	0.06	INF	3	31	19	20474	1.72	15.85	4.59	INF	INF	221.38	94	131
996	1106	659404	5583845	64.75	0.07	INF	3	18	25	11127	2.55	18.60	5.65	INF	INF	64.32	12	92
997	1107	658236	5584242	58.50	0.05	INF	<1	15	23	8870	1.72	19.74	4.74	INF	INF	67.74	12	75
998	1108	658868	5585013	59.60	0.12	INF	<1	16	25	8732	2.49	25.86	3.48	INF	INF	80.19	13	71
999	1109	656015	5585698	33.90	0.18	2.52	3	48	39	22629	1.58	27.38	4.60	1.23	0.76	138.87	35	133
1000	1111	656665	5587619	25.15	0.12	2.58	<1	47	25	15294	0.55	33.87	3.28	1.41	<0.5	105.36	22	101
1001	1112	655102	5587579	54.20	0.22	2.36	<1	26	31	8650	0.95	19.87	4.57	0.92	<0.5	120.28	19	50

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
1002	1113	656040	5588352	52.00	0.13	INF	2	36	35	9383	0.88	36.26	2.51	INF	INF	94.03	15	66
1003	1114	655532	5588966	57.40	0.13	2.47	4	28	37	4645	0.93	35.57	1.65	1.50	0.69	95.31	10	44
1004	1115	655824	5589516	48.20	0.09	1.19	3	19	27	3859	0.93	31.34	1.83	1.18	0.53	52.39	7	49
1005	1116	653361	5589677	49.90	0.15	3.10	1	47	40	13368	1.38	37.03	6.05	1.48	0.85	171.07	27	70
1006	1117	653952	5589571	69.60	0.20	1.26	<1	22	31	13214	1.30	16.62	3.29	<0.9	<0.5	125.63	31	61
1007	1118	654142	5589111	39.20	0.14	1.43	<1	42	31	16628	1.10	34.95	4.24	1.01	0.74	155.47	26	88
1008	1119	654150	5588597	60.05	0.11	INF	<1	27	34	6416	2.00	33.34	3.57	INF	INF	147.00	17	63
1009	1121	653194	5588619	55.50	0.17	1.13	<1	25	30	5632	1.84	19.32	3.39	<0.9	<0.5	128.97	18	43
1010	1122	652784	5588165	55.70	0.15	0.93	<1	22	27	7541	2.52	21.23	3.25	<0.9	<0.5	140.21	24	49
1011	1123	652568	5587304	39.40	0.12	<0.9	2	16	19	5735	0.86	15.94	3.24	<0.9	<0.5	61.86	11	39
1012	1124	652108	5587507	52.80	0.17	1.69	<1	43	43	17090	6.88	31.82	3.90	0.99	0.68	185.29	26	116
1013	1125	651632	5588866	32.10	0.13	1.27	1	38	23	19252	1.54	24.01	4.73	<0.9	0.51	196.01	31	104
1014	1126	650443	5589045	43.00	0.09	<0.9	<1	21	19	9691	0.74	18.18	3.63	<0.9	<0.5	139.51	15	53
1015	1127	650370	5589483	47.30	0.18	<0.9	2	37	34	15580	2.92	19.33	4.87	<0.9	0.73	233.60	44	99
1016	1128	651533	5589594	51.90	0.19	1.27	3	38	38	12974	2.30	20.96	6.59	<0.9	0.51	247.35	29	54
1017	1129	649796	5589919	69.60	0.09	<0.9	<1	11	19	6520	1.23	12.17	2.44	<0.9	<0.5	61.13	15	57
1018	1131	650292	5590593	48.30	0.16	1.54	1	31	39	15203	1.05	30.49	5.09	1.18	0.68	182.59	35	63
1019	1132	649593	5591201	34.30	0.14	1.40	3	36	25	21857	1.08	21.20	4.94	<0.9	0.56	230.46	32	115
1020	1133	649588	5591598	49.10	0.10	<0.9	1	20	23	5691	1.10	19.52	3.23	<0.9	<0.5	153.94	15	45
1021	1134	649301	5592235	42.60	0.07	<0.9	1	15	17	5681	0.64	14.89	3.03	<0.9	<0.5	124.03	14	37
1022	1135	650229	5592218	37.90	0.09	<0.9	1	18	20	8586	0.73	16.37	2.87	<0.9	<0.5	141.84	17	43
1023	1136	648794	5594429	23.10	0.11	2.41	1	34	22	23131	0.92	24.80	4.52	<0.9	0.51	180.90	32	101
1024	1137	648376	5595464	25.05	0.06	1.20	<1	20	27	9441	1.32	20.01	3.02	<0.9	0.58	81.19	15	39
1025	1138	646839	5595919	49.80	0.17	<0.9	<1	23	25	12494	1.17	14.07	6.82	<0.9	<0.5	166.07	45	76
1026	1139	646671	5596109	71.80	0.08	INF	<1	11	14	5404	1.92	11.74	2.98	INF	INF	57.51	12	45
1027	1141	645784	5595938	37.20	0.12	<0.9	2	24	16	15717	0.68	16.99	4.65	<0.9	<0.5	206.12	24	91
1028	1142	645773	5595202	60.20	0.10	1.12	1	12	22	4551	1.75	15.03	3.18	<0.9	<0.5	109.17	12	55
1029	1143	646175	5594702	59.70	0.08	INF	1	26	39	11888	4.60	28.09	3.72	INF	INF	130.67	20	62
1030	1144	647833	5594314	37.70	0.08	1.61	1	23	41	11184	2.38	26.98	3.34	1.10	0.74	84.73	17	51
1031	1145	648002	5593060	32.70	0.13	0.94	2	35	25	27030	0.89	25.21	5.29	<0.9	0.52	183.63	32	97
1032	1146	647319	5591357	28.55	0.08	1.61	1	30	22	10416	0.63	26.23	3.13	<0.9	0.57	118.00	13	63
1033	1147	647232	5590571	37.55	0.12	1.42	3	38	33	11603	1.12	38.52	3.13	1.15	0.68	155.41	15	91
1034	1148	648141	5591732	45.45	0.09	<0.9	2	29	29	8667	1.05	35.03	3.70	<0.9	<0.5	156.31	14	59
1035	1149	648443	5591255	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1036	1151	649083	5590449	52.55	0.18	1.23	<1	29	40	13624	1.24	26.25	6.18	1.28	0.64	189.53	43	66
1037	1152	648392	5590065	51.90	0.21	2.27	1	29	37	15007	1.31	22.07	5.65	1.32	0.75	169.23	38	91
1038	1153	648235	5589482	68.60	0.12	1.02	<1	12	31	4453	5.51	18.66	2.30	1.21	0.71	65.75	15	70
1039	1154	648459	5589124	59.70	0.16	1.93	3	20	48	5999	2.96	25.26	2.52	2.23	1.19	91.17	17	64
1040	1155	649230	5588546	69.80	0.10	1.61	<1	21	35	7908	2.81	19.19	2.65	1.66	0.73	48.97	22	108
1041	1156	648200	5587750	59.70	0.10	2.29	2	27	51	6314	0.89	37.46	2.64	2.20	0.94	81.74	10	53
1042	1157	649786	5587792	45.80	0.11	1.99	3	41	34	12947	1.49	29.77	3.91	1.29	0.81	145.99	25	77
1043	1158	650167	5588344	42.90	0.14	1.96	<1	36	28	15892	1.28	25.73	4.80	<0.9	<0.5	217.07	31	117
1044	1159	650825	5587616	43.60	0.11	0.93	<1	27	29	10574	1.66	30.34	5.11	<0.9	<0.5	136.45	25	66
1045	1161	650509	5587215	50.60	0.25	3.43	3	68	67	17254	2.89	53.40	6.49	2.30	1.42	208.55	57	110
1046	1162	651542	5586668	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1047	1163	653520	5585733	51.80	0.10	1.32	<1	26	24	7449	1.42	23.15	3.37	<0.9	0.52	61.33	18	98
1048	1164	653565	5584884	40.50	0.22	3.07	3	57	59	75273	5.31	40.46	6.90	1.85	1.03	258.94	68	214
1049	1165	655335	5575124	43.10	0.16	1.11	2	22	28	11634	0.97	20.08	3.76	<0.9	<0.5	141.09	22	78
1050	1166	655685	5575432	36.90	0.09	1.07	<1	18	21	8423	0.55	18.96	3.13	<0.9	<0.5	102.65	14	69
1051	1167	655661	5576656	30.70	0.11	1.65	3	28	19	13992	0.49	22.06	3.67	<0.9	<0.5	97.87	23	78
1052	1168	653413	5576988	40.60	0.22	1.97	1	28	35	18197	1.09	20.46	5.09	0.98	<0.5	159.28	33	73
1053	1169	650236	5576914	50.90	0.13	INF	<1	24	49	14745	2.63	19.48	5.36	INF	INF	70.51	23	70
1054	1171	648540	5577964	17.90	0.13	2.29	3	43	19	32674	0.46	27.65	5.49	<0.9	0.66	141.66	41	144
1055	1172	649664	5579261	7.60	0.06	1.10	2	27	17	20310	0.58	17.39	3.99	<0.9	0.70	76.90	24	43
1056	1173	650938	5578952	66.70	0.07	INF	2	12	15	4252	1.22	14.92	4.76	INF	INF	44.20	10	36
1057	1174	651626	5579953	66.50	0.06	<0.9	<1	9	9	2891	1.07	10.76	4.56	<0.9	<0.5	31.68	6	75
1058	1175	651581	5580386	54.35	0.14	1.10	1	26	28	14460	1.34	18.74	4.74	<0.9	<0.5	95.22	30	105
1059	1176	650955	5580443	65.00	0.11	INF	3	19	25	8107	1.45	18.52	3.39	INF	INF	70.98	17	79
1060	1177	652413	5583250	57.20	0.08	1.48	1	9	42	7807	2.91	26.77	1.98	1.13	<0.5	36.65	10	54
1061	1178	651821	5584058	79.45	0.08	INF	<1	8	13	3976	1.65	10.93	1.58	INF	INF	22.70	6	64
1062	1179	650979	5583791	77.10	0.07	INF	<1	9	36	2551	4.36	17.94	2.42	INF	INF	19.68	<5	50
1063	1181	649858	5583850	21.60	0.13	1.98	<1	40	22	27946	1.05	26.90	5.20	1.14	0.73	145.93	36	118
1064	1182	650039	5585118	41.80	0.07	2.24	2	34	46	11209	1.94	31.13	4.04	1.58	0.91	79.51	20	55
1065	1183	648488	5584874	11.40	0.07	2.27	2	36	24	18852	0.59	23.86	4.73	1.26	0.86	94.55	27	59
1066	1184	647095	5585543	34.75	0.09	1.87	1	33	26	11423	0.68	25.69	3.84	1.11	0.67	91.05	17	79

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
1067	1185	646610	5586653	44.70	0.10	1.39	5	22	27	6441	0.71	26.92	2.46	1.10	0.56	96.53	10	54
1068	1186	646150	5588571	44.20	0.20	2.03	2	46	53	9519	1.08	43.44	3.09	1.81	0.90	148.56	21	88
1069	1187	647104	5589582	63.65	0.21	INF	2	27	82	6014	1.79	45.75	3.59	INF	INF	141.03	17	53
1070	1188	646491	5589947	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1071	1189	645087	5590268	55.60	0.09	<0.9	<1	20	25	13957	1.45	13.93	4.28	1.18	1.22	111.77	35	51
1072	1191	644428	5591093	54.05	0.06	<0.9	<1	12	15	4089	0.71	15.43	2.64	<0.9	<0.5	88.53	10	44
1073	1192	646167	5591153	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1074	1193	645985	5592443	31.60	0.11	1.52	3	36	30	15937	0.62	30.87	4.08	<0.9	0.56	163.43	20	101
1075	1194	644701	5592388	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1076	1195	645097	5593174	32.20	0.11	1.16	3	33	26	14237	0.58	27.57	3.93	<0.9	<0.5	163.65	20	90
1077	1196	644119	5593914	37.30	0.14	1.69	<1	35	28	22195	0.70	24.72	6.30	<0.9	<0.5	173.06	30	90
1081	1201	642923	5592666	19.50	0.07	1.53	4	24	20	15998	0.89	16.58	3.84	1.03	0.85	97.25	23	53
1082	1202	642509	5591652	44.70	0.09	1.10	2	20	20	10107	0.75	17.89	2.90	<0.9	<0.5	132.68	21	57
1083	1203	642687	5591099	69.85	0.08	INF	<1	12	19	3858	1.33	17.01	3.41	INF	INF	80.48	11	66
1084	1204	641828	5590489	61.30	0.07	INF	1	13	14	5544	1.57	11.23	3.24	INF	INF	91.82	18	92
1085	1205	641619	5589838	69.50	0.07	INF	<1	10	10	4167	1.51	14.81	4.15	INF	INF	47.45	11	93
1086	1206	638600	5588422	42.10	0.12	<0.9	1	28	41	15479	1.38	22.99	2.95	1.00	0.57	273.10	39	79
1087	1207	633918	5586793	45.75	0.06	1.21	<1	12	17	4964	0.91	15.51	3.07	<0.9	<0.5	67.83	9	30
1088	1208	632997	5586422	56.00	<0.02	<0.9	1	9	18	2865	1.06	16.76	2.67	<0.9	<0.5	64.57	7	30
1089	1209	632385	5586059	53.10	0.10	1.26	1	16	27	7192	1.25	19.36	3.79	<0.9	<0.5	114.06	16	44
1090	1211	630994	5587184	10.65	0.06	1.45	<1	31	12	16914	0.23	17.14	4.54	0.93	0.52	83.10	28	50
1091	1212	630083	5586682	17.35	0.10	1.65	1	40	18	24339	0.54	20.83	6.48	<0.9	0.64	121.62	43	69
1092	1213	630510	5586116	14.20	0.12	1.50	<1	44	24	24317	0.50	26.40	6.77	<0.9	0.59	131.83	40	66
1093	1214	629051	5585952	16.80	0.11	1.18	<1	45	18	29611	0.45	29.79	6.38	<0.9	0.59	140.01	50	80
1094	1215	627755	5585488	15.20	0.10	1.43	2	37	16	21476	0.38	19.60	6.08	<0.9	0.53	119.46	41	63
1095	1216	629934	5584622	53.85	0.07	<0.9	1	11	23	4232	2.08	19.11	3.16	<0.9	<0.5	43.23	8	49
1096	1217	629813	5582537	25.15	0.14	1.53	1	37	25	19288	0.70	22.83	6.72	<0.9	<0.5	123.31	33	84
1097	1218	631431	5582531	61.05	0.10	INF	1	18	30	6415	1.68	25.26	3.07	INF	INF	89.46	13	59
1098	1219	632353	5584168	38.50	0.06	<0.9	<1	14	14	5679	0.74	12.59	2.96	<0.9	<0.5	47.15	10	35
1099	1221	634794	5584503	44.60	0.04	<0.9	<1	7	11	3729	1.20	10.03	2.63	<0.9	<0.5	35.01	6	28
1100	1222	639430	5584685	21.70	0.04	<0.9	<1	13	5	2805	0.36	6.54	3.44	<0.9	<0.5	31.27	8	27
1101	1223	640593	5585918	69.50	0.11	INF	INF	23	16	3281	2.06	12.59	4.91	INF	INF	42.35	17	107
1102	1224	641930	5587055	87.20	0.05	INF	INF	6	5	1482	1.14	4.58	1.84	INF	INF	10.25	<5	66
1103	1225	641908	5588373	44.00	0.04	0.97	3	16	11	6278	2.55	10.86	2.14	<0.9	<0.5	45.73	21	56
1104	1226	643086	5588827	50.20	0.05	<0.9	1	20	14	8213	2.06	11.81	2.20	<0.9	0.51	44.77	25	52
1105	1227	644326	5589194	53.10	0.06	1.38	<1	16	20	4899	1.11	22.16	2.66	<0.9	<0.5	51.99	10	40
1106	1228	645390	5584155	25.65	0.17	3.14	<1	48	42	27774	1.38	33.81	7.77	1.47	0.84	211.45	52	151
1107	1229	647493	5583706	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1108	1231	647774	5582576	25.50	0.12	1.94	2	36	21	20386	0.72	21.67	6.00	<0.9	0.52	107.72	32	88
1109	1232	647048	5580345	30.60	0.11	1.64	4	35	19	19977	0.51	22.20	4.78	<0.9	0.53	94.59	24	97
1110	1233	647770	5580691	12.40	0.06	2.54	<1	22	12	10932	0.38	13.33	2.67	<0.9	0.58	67.69	16	51
1111	1234	648317	5579589	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1112	1235	649947	5575401	43.90	0.07	1.53	2	16	19	8627	0.63	13.39	5.19	<0.9	<0.5	69.89	12	54
1113	1236	650091	5574077	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1114	1237	650530	5574907	33.20	0.11	1.95	1	24	23	17520	0.70	17.92	4.59	<0.9	<0.5	101.45	29	80
1115	1238	652062	5573398	64.90	0.16	2.40	<1	4	11	1140	0.86	11.22	1.29	<0.9	<0.5	15.41	<5	25
1116	1239	650740	5572451	38.20	0.18	1.34	3	13	18	8511	0.86	12.64	2.10	<0.9	<0.5	86.92	17	54
1117	1241	666161	5569142	7.70	0.10	1.46	10	11	7	6360	0.62	7.81	1.35	<0.9	0.61	37.85	12	39
1118	1242	665664	5569267	41.05	0.14	1.36	1	16	19	4804	0.71	16.64	1.65	<0.9	<0.5	50.13	7	47
1119	1243	661344	5569717	50.00	0.22	1.72	<1	17	34	6325	1.12	13.81	3.13	<0.9	<0.5	87.87	18	60
1120	1244	653498	5572994	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1121	1245	651349	5571752	42.10	0.22	1.68	1	26	31	20042	1.45	21.95	5.88	<0.9	<0.5	151.08	41	94
1122	1246	650317	5571747	33.50	0.15	1.83	1	24	24	17262	0.99	23.42	2.71	<0.9	<0.5	135.68	24	92
1123	1247	643814	5576711	62.30	<0.02	2.23	2	19	31	9168	0.91	17.76	3.77	<0.9	0.51	82.16	22	52
1124	1248	642986	5579506	46.20	<0.02	<0.9	<1	15	12	6154	1.20	16.56	2.68	<0.9	<0.5	34.29	10	75
1125	1249	643359	5579987	NM	NM	NM	2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1126	1251	644557	5581095	71.60	0.04	INF	1	6	11	2221	1.61	16.77	1.83	INF	INF	13.51	<5	50
1127	1252	645680	5580347	76.10	0.05	INF	2	15	24	3575	2.57	19.49	1.94	INF	INF	35.22	9	74
1128	1253	644717	5582949	30.00	0.12	3.61	3	42	32	63311	2.20	27.62	7.34	1.19	0.75	174.26	47	123
1129	1254	643735	5583172	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1130	1255	642706	5582546	26.20	<0.02	1.23	3	27	19	10379	0.76	21.00	3.02	<0.9	0.55	79.38	15	48
1131	1256	642055	5582675	14.80	0.07	2.84	<1	29	15	14130	0.52	17.54	3.31	<0.9	0.61	96.35	21	72
1132	1257	642053	5582420	3.60	<0.02	1.39	2	10	5	5334	0.22	6.39	1.60	<0.9	<0.5	46.41	8	21
1133	1258	639581	5581573	33.00	0.03	1.96	2	34	36	13640	1.78	29.29	3.91	1.11	0.76	92.29	21	66
1134	1259	637675	5581315	3.50	<0.02	2.74	<1	15	7	7114	0.89	9.64	1.40	<0.9	0.58	44.91	12	16

Site	Sample	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mo	Ni	Pb	Pd	Pt	REEt	V	Zn
		Method	---------->	Grav	MS	FA	NAA	OES	OES	OES	MS	MS	MS	FA	FA	MS	OES	OES
		Units	---------->	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
		Det Limit	---------->	0.01	0.02	0.90	1	4	5	5	0.10	0.50	0.05	0.90	0.50		5	2
1135	1261	636285	5580821	55.60	<0.02	1.85	<1	15	26	11182	4.35	18.12	2.33	1.58	1.07	39.54	12	42
1136	1262	634397	5580660	26.90	0.05	1.92	2	37	22	17424	0.64	25.46	4.44	0.97	0.59	110.03	23	85
1137	1263	633385	5580987	40.50	<0.02	1.49	<1	15	13	6197	0.80	12.07	3.17	<0.9	<0.5	41.47	11	44
1138	1264	633314	5581634	64.90	0.05	INF	1	11	16	3671	1.24	11.04	2.33	INF	INF	46.49	10	62
1139	1265	630898	5581415	14.40	0.04	2.08	3	33	14	16403	0.49	17.83	4.03	<0.9	0.65	89.19	23	70
1140	1266	628851	5581454	25.00	0.07	2.04	3	38	20	19216	0.59	21.43	5.43	0.91	0.58	109.17	32	82
1141	1267	629449	5578774	53.80	0.04	6.35	<1	21	20	10869	0.88	17.81	3.66	<0.9	1.15	82.24	25	69
1142	1268	630673	5578848	60.70	0.05	2.33	<1	14	17	6357	1.12	16.03	2.47	<0.9	0.56	45.16	9	56
1143	1269	632384	5579318	35.00	0.04	<0.9	<1	33	18	15509	0.80	19.87	4.02	<0.9	0.76	76.98	24	79
1144	1271	633843	5577897	70.60	0.03	INF	<1	26	22	7768	1.70	14.56	4.02	INF	INF	45.60	30	56
1146	1273	634377	5578485	62.40	0.10	INF	<1	17	21	9378	1.55	16.82	2.97	INF	INF	42.13	18	82
1148	1275	636955	5578465	49.50	0.10	INF	<1	36	19	11212	1.65	30.60	3.76	INF	INF	49.41	26	60
1149	1276	639436	5578224	14.20	0.07	0.91	<1	33	14	16943	0.30	19.87	4.26	1.17	0.61	85.72	24	61
1150	1277	640427	5579714	14.80	0.09	6.35	3	35	15	18560	0.37	24.71	4.81	1.68	0.87	95.14	27	66
1151	1278	664335	5575094	48.70	0.12	0.91	3	21	27	7936	1.55	27.81	4.37	0.93	<0.5	106.20	20	85
1152	1279	666452	5577482	53.60	0.17	<0.9	2	12	30	6245	1.00	19.29	4.03	<0.9	<0.5	91.92	11	53
1153	1281	666146	5577591	52.00	0.15	4.71	<1	10	32	5289	0.99	13.46	1.98	<0.9	<0.5	86.40	12	42
1154	1282	656275	5577079	3.60	0.08	1.31	<1	32	21	17423	0.77	30.13	5.47	<0.9	1.05	100.59	27	42
1155	1283	655596	5576239	36.50	0.15	1.51	1	18	21	8776	0.62	21.03	3.22	<0.9	0.53	94.44	14	65
1156	1284	656084	5574757	35.70	0.12	1.38	2	21	26	10801	0.49	24.07	2.66	<0.9	<0.5	130.01	17	95
1157	1285	655389	5574158	38.50	0.13	2.04	<1	21	26	10642	0.50	20.38	2.85	<0.9	0.84	116.87	17	74
1158	1286	655981	5574113	46.70	0.23	3.94	2	24	38	11359	1.04	20.40	3.65	<0.9	<0.5	165.80	26	117
1159	1287	656832	5573067	34.10	0.17	<0.9	<1	10	27	3218	0.69	9.18	1.62	<0.9	0.76	55.64	8	27
1160	1288	656362	5572464	48.90	0.23	2.33	2	21	40	9108	1.07	21.44	3.80	<0.9	0.55	156.28	26	63
1161	1289	658190	5572004	47.60	0.30	1.30	3	25	34	15446	0.92	18.95	4.62	<0.9	<0.5	204.35	37	108
1162	1291	653488	5577385	39.70	0.18	<0.9	<1	28	34	15270	1.20	26.55	3.45	<0.9	<0.5	155.45	22	82
1163	1292	651399	5575798	53.70	0.09	<0.9	1	13	25	5779	0.80	15.08	3.03	<0.9	<0.5	62.73	10	68
1164	1293	652695	5575398	57.30	0.11	<0.9	<1	19	40	8802	1.13	20.49	2.81	<0.9	<0.5	64.88	26	65
1165	1294	651797	5574558	35.50	0.12	<0.9	2	22	27	15304	0.84	22.64	3.21	<0.9	<0.5	117.90	25	91
1166	1295	653187	5574348	32.30	0.16	<0.9	2	26	30	15994	0.62	23.91	3.68	<0.9	<0.5	139.41	26	72
1167	1296	653588	5574285	49.40	0.14	<0.9	1	14	33	6194	0.62	26.03	2.77	<0.9	<0.5	125.41	12	59
1168	1297	654389	5573544	40.10	0.13	INF	1	27	25	13688	0.75	20.49	3.62	INF	INF	122.33	26	97
1169	1298	652662	5572990	50.85	0.15	<0.9	1	17	33	10417	1.47	19.42	2.79	<0.9	<0.5	129.75	22	62
1170	1299	652436	5572018	40.70	0.12	<0.9	1	23	28	25889	1.91	16.33	6.72	<0.9	<0.5	140.88	58	82
1171	1301	675044	5612858	46.20	0.09	<0.9	<1	33	24	17407	1.02	18.54	3.52	<0.9	<0.5	121.54	26	101
1172	1302	675774	5612689	50.00	0.09	INF	1	38	30	22732	1.35	22.02	3.63	INF	INF	135.09	34	111
1173	1303	675003	5612279	38.40	0.06	INF	<1	26	22	19303	1.44	15.72	3.04	INF	INF	89.92	24	82
1174	1304	674687	5609425	63.30	<0.02	INF	1	20	30	13645	2.26	17.21	3.02	INF	INF	97.87	22	83
1175	1305	675223	5610155	44.05	0.05	INF	<1	23	22	17455	1.97	15.82	2.94	INF	INF	87.23	23	94
1176	1306	675463	5611075	49.30	0.06	INF	1	35	26	26603	1.11	20.60	3.73	INF	INF	134.87	37	137
1177	1307	674456	5610743	51.70	0.07	<0.9	<1	29	29	17215	1.27	16.77	5.91	<0.9	<0.5	140.65	30	121
1178	1308	673839	5610054	53.70	0.09	<0.9	<1	28	28	16636	1.27	17.69	4.51	<0.9	<0.5	132.29	28	119
1179	1309	673400	5608829	79.75	0.02	INF	<1	15	33	11951	4.36	13.74	2.21	INF	INF	57.86	12	79
1180	1311	673028	5608355	63.10	0.03	INF	3	23	24	14325	2.32	17.80	3.40	INF	INF	88.38	16	98
1181	1312	672308	5609768	63.90	0.05	INF	6	16	26	8704	1.49	16.95	2.77	INF	INF	91.01	15	75
1182	1313	671956	5610742	67.00	0.03	INF	<1	14	22	7448	1.57	16.54	2.68	INF	INF	88.64	15	65
1183	1314	672103	5611316	70.40	0.03	INF	<1	12	24	8965	2.62	13.34	2.45	INF	INF	88.40	13	80
1184	1315	672166	5613449	46.05	0.09	<0.9	2	27	26	20494	0.76	16.63	4.19	<0.9	<0.5	268.79	39	112
1185	1316	671912	5612783	50.50	0.14	INF	4	33	35	19339	1.06	20.72	3.60	INF	INF	273.20	40	115
1186	1317	671288	5610064	64.00	<0.02	INF	<1	15	23	8702	1.89	13.27	2.04	INF	INF	88.57	14	61

Median	52.00	0.09	<0.90	1	18	27	8575	1.14	18.26	3.29	<0.90	<0.50	91.32	16	70
Mean	52.20	0.10	1.24	1	20	32	11132	1.53	19.54	3.65	0.83	0.48	107.94	19	77
Standard deviation	14.97	0.08	2.21	2	11	23	12109	1.55	7.66	1.79	1.02	0.74	66.80	12	39
Minimum	2.65	<0.02	<0.90	<1	<4	5	918	0.21	4.37	0.66	<0.90	<0.5	5.61	<5	<2
Maximum	89.90	0.67	37.44	34	85	273	28938	25.90	53.40	25.62	18.04	16.19	424.70	94	595
Count	1071	1075	599	1029	1075	1075	1075	1075	1075	1075	599	599	1075	1075	1075

Notes:

Grav = Automated gravimetric method
MS = Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
OES = Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)
FA = Fire Assay - ICP-MS
NAA = Instrumental Neutron Activation Analysis (INAA)

INF = Insufficient sample material for analysis
NS = No sample
NM = Not measured

Easting, northing coordinates are provided in NAD 83, zone 15

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

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